



**SE
TU**

Ollscoil
Teicneolaíochta
an Oirdheiscirt

South East
Technological
University

EXPO' 24

**SETU WATERFORD COMPUTING
PROJECT EXPO '24**

LIST OF FINAL YEAR AND RESEARCH PROJECTS

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SECTION 1
UNDERGRADUATE PROGRAMMES —
BSC (HONOURS)

LIST OF FINAL YEAR AND RESEARCH PROJECTS

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BSc (Hons) in Applied Computing

The BSc (Hons) in Applied Computing is a 4-year ab-initio Level 8 programme.

The aim of the BSc (Honours) in Applied Computing is

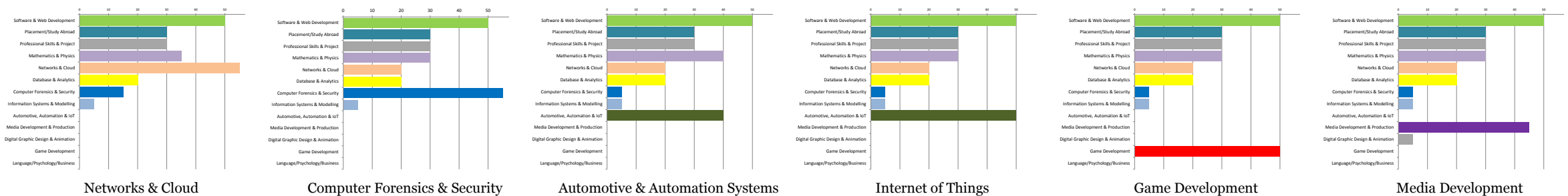
to provide a broad but focused, curriculum of computing and software development concepts. This is complemented by the study of particular problem domain areas (e.g. Games Development, Cloud Computing). The intention is for the student to not only learn the technical skills, but also to form an appreciation for the context in which the technologies are used and the processes involved in successful development.

At the start of their study, the student will be introduced to a broad range of subject material, with an emphasis on applying the scientific method. Later, the student will be exposed to challenging and rigorous study of system development (from analysis to design to implementation and verification) and apply these principles to small to medium sized systems. The student will be given a foundation in an application area of their choosing (from Media Development, Computer Forensics & Security, Cloud Infrastructures, Automotive & Automation Systems, Game Development, and the Internet of Things) and gain strong proficiency in developing systems in this area.

It is important that the student be conversant with current trends and paradigms when they enter the job market. However, it is equally important that they will have transferable skills that will facilitate their career progression (e.g. project management, communication skills). To this end, throughout their study, the student will be introduced to these topics so that the practice of these skills will occur in a seamless and integrated way throughout the program.

A graduate of the BSc (Honours) in Applied Computing will be an enthusiastic and confident practitioner, comfortable with their ability to learn, and adapt to the ever-changing world of computing. They will be ready to embark on a challenging and rewarding career either in research or in the computing industry.

The breakdown of course credits across the four years on each specialism is illustrated by the following charts.





Academic Title:

AccessiVote

Referendum As-a-service for Inclusive Voting Through AWS Serverless Architecture

Technologies: AWS, Cloudformation, Python, Trello, Cognito, Github

Project Areas: Cloud Computing, Software Development: (Back End / Web)

Project Supervisor: John Rellis

<https://sites.google.com/view/20093747jackaherne/home>

Not presenting

by Jack Aherne



Academic Title:

Face Attendance System

Faceguard: Revolutionizing Attendance with Cutting-edge Face Recognition Technology

Technologies: AWS S3, DynamoDB, Rekogintion, Lambda, JavaScript

Project Areas: Cloud Computing

Project Supervisor: Sinead O'Neill

<https://github.com/kedaranathambekar/fyp-landingPage>

#1 / TL252

by Kedaranath Ambekar



Academic Title:

VuLPES

Content Distibution Infrastructure for Education Environments

Technologies: JavaScript, IPTables, DynamoDB

Project Areas: Cloud Computing, Internet of Things, Software Development: (Web)

Project Supervisor: Richard Lacey

<http://jasonanca.com/vulpes>

#2 / TL252

by Jason Anca





Auto Ethernet Security: A Comparison

#3 / TL252

Academic Title:

Comparative Analysis of Automotive Ethernet Security Protocols

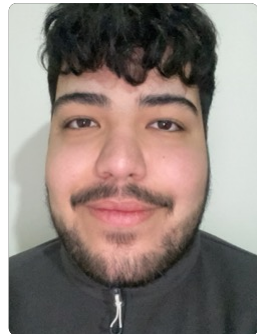
Technologies: Vector CANoe - Ethernet

Project Areas: Automotive and Automation, Computer Networks, Computer Security

Project Supervisors: Joe Daly, Sonya Hogan

<https://20093212.wixsite.com/alexander-berbenit-1>

by Alexander Berbenitskiy



EduHost

#4 / TL252

Academic Title:

EduHost - A Student Website Hosting Platform Web Application Powered by React and AWS

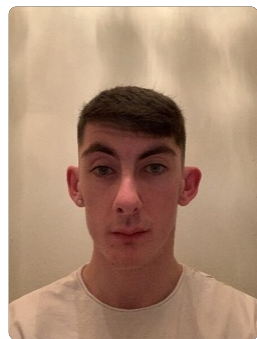
Technologies: React, JavaScript, Python, Amazon Web Services, Terraform

Project Areas: Cloud Computing, Software Development: (Back End / Front End / Web)

Project Supervisor: Denis Flynn

<https://projectshowcase.eduhost.ie>

by Hasan Berk



Automotive Lane Correction Assist

#5 / TL252

Academic Title:

Lane Correction Assistance, an ADAS Concept

Technologies: CANoe, CAPL, Lucid Chart, Vector Testing

Project Areas: Automotive and Automation

Project Supervisor: Brendan Jackman

<https://ericdebutleir.github.io/FYP-WebPage/>

by Eric Butler





Goblin Gadgets: A Turret Tale

#6 / TL252

Academic Title:

Top-down Auto-shooter Wave-based Survival Godot 4 3D Game

Technologies: Godot, Blender, GDScript, Aseprite, C#, Git, Github, Trello, Jekyll

Project Areas: Game Development

Project Supervisor: Patrick McInerney

https://keithbutler-wit.github.io/final_year_project/

by Keith Butler



Digital Memorials

#7 / TL252

Academic Title:

A React, Cloud Based, Web Application for the 'Digital Memorials' Toolkit Service

Technologies: React, HTML/CSS, JavaScript, Node.js, Express.js, Multiple AWS Services

Project Areas: Cloud Computing, Database and Analytics, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Muhammad Iftikhar Umrani

<https://deancrowley24680.github.io/>

by Dean Crowley



KapU - Entry Control for U

#8 / TL252

Academic Title:

IoT-based Entry Control System Hosted on AWS

Technologies: Raspberry Pi, Python, ISO/IEC 14443 (NFC), AWS DynamoDB

Project Areas: CI/CD & Testing, Cloud Computing, Database and Analytics, Internet of Things, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: John Rellis

<https://github.com/MateDomonics/entry-control-system/>

by Máté Domonics





Academic Title:

Elementalist

Technologies: Unity, C#, Blender, Github, Trello, HLSL

Project Areas: Animation, Game Development

Project Supervisor: Patrick Felicia

<https://jack-donohoe.github.io/Elementalist-FYP-Website/>

#9 / TL252

by Jack Donohoe



Academic Title:

Inprov

Automated Server Provisioning and Configuration Using Infrastructure as Code

Technologies: Terraform, Puppet, Python, BASH, Linux, Cloud-init, Amazon Web Services, React

Project Areas: Cloud Computing, DevOps, Software Development: (Back End)

Project Supervisor: Rahul Mhapsekar

<https://jackjduggan.github.io/>

#10 / TL252

by Jack Duggan



Academic Title:

Blueprinted

Procedurally Generated 3D Open-world Unity Game with In-depth Resource Management and Advanced AI

Technologies: Unity, C#, JetBrains Rider

Project Areas: Game Development

Project Supervisor: Patrick Felicia

<https://cfarrell02.github.io/fyp-blueprinted-site/>

#11 / TL252

by Cian Farrell





Gjallarhorn

#12 / TL252

Academic Title:

Python Based Team Management and Workload Monitoring Tool

Technologies: Python, Javascript, html, css

Project Areas: Computer Networks, Computer Security, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Michael McMahon

<https://cormacwit.github.io/>

by Cormac Farrell



Q-Up: Your Queuing Companion

#13 / TL251

Academic Title:

Cloud-based Virtual Attraction Queuing System with Accompanying Android App

Technologies: Android, Kotlin, AWS, DynamoDB, S3, Cognito, Google Maps, QR

Project Areas: Cloud Computing, Software Development: (Mobile Native)

Project Supervisor: John Rellis

<https://dylanfennelly.github.io/Q-Up/>

by Dylan Fennelly



EthicalShield: AI, Ethics & Security

#14 / TL251

Academic Title:

Investigating Ethical AI – Capabilities & Implications in the Cybersecurity Space

Technologies: Overleaf LaTeX, GitHub, GitHub Pages, Trello, Visual Studio Code

Project Areas: Artificial Intelligence, Computer Security

Project Supervisor: Bernard Butler

<https://rfinnegan111.github.io/FYP-Research-Repo/>

by Rebecca Finnegan





Tick-It

#15 / TL251

Academic Title:

Event Ticket Distribution Website Hosted on AWS

Technologies: Amazon Web services, Javascript, HTML, CSS

Project Areas: Cloud Computing, Computer Networks, Software Development: (Front End)

Project Supervisor: Deirdre O'Halloran

<https://ilegacov.wixsite.com/tick-it-landing-page>

by Ilija Gacov



Sun Life Dental Mobile App Upgrade

#16 / TL251

Academic Title:

Enhancing Sun Life Mobile Application: A Comprehensive Upgrade Project

Technologies: Flutter, Dart, Android, iOS, SourceTree, JIRA

Project Areas: Software Development: (Back End / Front End / Mobile Native)

Project Supervisor: Sonya Hogan

<https://sites.google.com/mail.wit.ie/michael-gerber-200932656/home>

by Michael Gerber



VoiceGuard

#17 / TL251

Academic Title:

Voice Authentication System Using Voice Analysis for Security

Technologies: Python, Kotlin, AWS, FastAPI

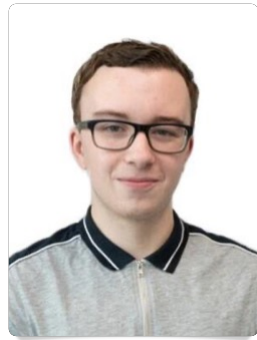
Project Areas: Computer Forensics, Software Development: (Back End / Front End / Mobile Native)

Project Supervisor: John Rellis

<https://voicemfa.github.io/FYP-Website/>

by Marko Glavic





Electric Vehicle Diagnostics

#18 / TL251

Academic Title:

ZEVonUDS Protocol Stack Implementation

Technologies: Vector CANoe, Vector CANdelaStudio, Raspberry Pi, C,
Project Areas: Automotive and Automation, Software Development: (Core)

Project Supervisor: Brendan Jackman

<https://conorgleeson.github.io/ZEVonUDS-fyp-site>
by **Conor Gleeson**

Twilight Sun

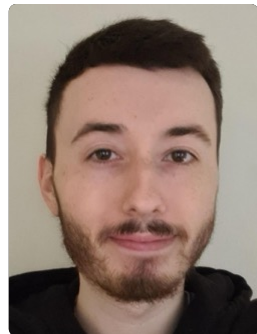
#19 / TL251

Academic Title:

Unity 2D Procedurally Generated Game with Advanced Enemy AI and Dynamic Difficulty

Technologies: Unity, C#, GIMP, Git, Github, Trello
Project Areas: Game Development

Project Supervisor: Patrick Felicia

https://ged-j.github.io/Twilight-Sun-Website/dark_index.html
by **Gedvydas Jucius**

Driver Awareness System

#20 / TL251

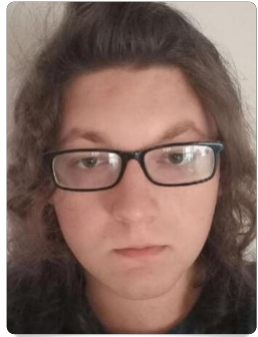
Academic Title:

Applying the Principles of Functional Safety to the Development of an Automotive Software Component

Technologies: Vector CANoe, CAPL, CAN, Car2X, ADAS
Project Areas: Automotive and Automation, Software Development: (Core)

Project Supervisor: Brendan Jackman

<https://20092570.wixsite.com/deanlonergan>
by **Dean Lonergan**



The IoT GPS Computer

#21 / TL251

Academic Title:

IoT Application for Recording GPS Data

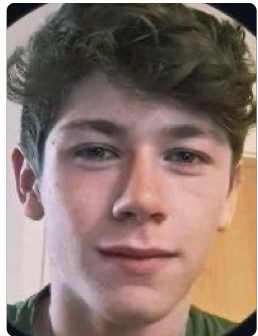
Technologies: Python, Bluetooth, Javascript, C++

Project Areas: Cloud Computing, Database and Analytics, Internet of Things, Software Development: (Mobile Native)

Project Supervisor: Rahul Mhapsekar

<https://github.com/20094523/IoT-GPSComputer>

by Dominik Martynski



Pilgrim Portal - A Website for Pilgrim

#23 / TL228

Academic Title:

Full Stack Development of a Web Application Using Angular, AWS and DynamoDB

Technologies: Angular, AWS and DynamoDB.

Project Areas: Database and Analytics, Software Development: (Back End / Web)

Project Supervisor: Rahul Mhapsekar

<https://cillian00.github.io/FYP-Landing-Page/>

by Cillian Murphy



PowerFlow Pro: Seamless EV Charging UI

#24 / TL228

Academic Title:

ISO 15118 Protocol Stack: Implementing Secure EV Charging for Efficient Vehicle-station Comm with UI

Technologies: Vector CANoe, MySQL Workbench, Raspberry Pi, Ethernet cable, AWS, C, PHP, Foundation 6

Project Areas: Automotive and Automation, Database and Analytics

Project Supervisor: Sonya Hogan

<https://emmanolan2019.wixsite.com/iso-15118-protocol-s>

by Emma Nolan





Micro:Bit Sensor Pod Breakout Board

#25 / TL228

Academic Title:

USV-Lir Micro: Bit Sensor Pod Abstraction and API

Technologies: Microbit, QGroundControl, PixHawk, Typescript, MQTT, GitHub, Autodesk Eagle

Project Areas: Automotive and Automation, Internet of Things, Software Development: (Core)

Project Supervisor: Jason Berry

<https://github.com/AdamOBrien/USV-LIR-Microbit-Abstraction>

by Adam O'Brien



Hullbreaker

#26 / TL228

Academic Title:

A 2D, Roguelike, RPG Unity Game Utilizing Advanced AI, Dynamic Difficulty and Procedural Generation

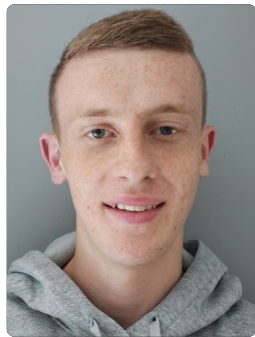
Technologies: Unity, C#, GitHub, Trello

Project Areas: Animation, Game Development

Project Supervisor: Brendan Lyng

<https://guygoose.github.io/HullBreaker-FYP-Website/>

by Anthony O'Keefe



Service-oriented Diagnostics

#27 / TL228

Academic Title:

Implementing Diagnostics in an Automotive System Through SOME/IP Communication Protocol

Technologies: SOME/IP, Vector CANoe, CAPL

Project Areas: Automotive and Automation, Software Development: (Back End)

Project Supervisors: Sonya Hogan, Joe Daly

<https://stephenpower37.github.io/FYP-Landing-Page/>

by Stephen Power





Academic Title:

Unity Based Multiplayer Video Game in Virtual Reality

Technologies: Unity, C#, Netcode, Relay, Lobby, Trello, Git, Github

Project Areas: Computer Networks, Game Development

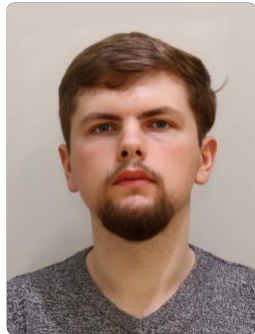
Project Supervisor: Brendan Lyng

<https://corshan.github.io/FYP/>

Chaos Chefs

#28 / TL228

by Corey Shanahan



Academic Title:

First-person Retro-inspired Dungeon Crawling RPG

Technologies: Unity, Blender, Aseprite, FMOD, C#, LUA

Project Areas: Animation, Artificial Intelligence, Digital Graphic Design, Game Development

Project Supervisor: Denis Flynn

<https://d-sills.github.io/Echoing-Depths/>

Echoing Depths

#29 / TL228

by Darren Sills



Academic Title:

Procedurally Generated Unity3D Game with Voice Recognition Spell-casting and Enemy AI

Technologies: Unity, C#, GitHub, Trello

Project Areas: Game Development

Project Supervisor: Brendan Lyng

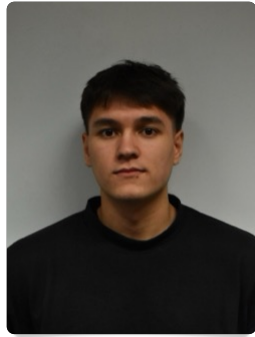
<https://sites.google.com/mail.wit.ie/fyp-landing-page>

Mystic Mayhem

#30 / TL228

by Moses Ugwulo





Smart Incident Sentinel

#31 / TL228

Academic Title:

Logguard: An Intelligent Machine Learning Incident Detection System

Technologies: Jupyter-Lab, Python, scikit learn, pandas, numpy, matplotlib, seaborn.

Project Areas: Automotive and Automation, Computer Networks, Database and Analytics, Media Development and Production

Project Supervisor: Richard Lacey

<https://williamvasilev.wixsite.com/william-vasilev-fyp>

by **William Vasilev**



An Exploration into Data Collection

#32 / TL228

Academic Title:

How Regulated Should Data Collection Be and How May it Develop in the Future

Technologies: Github, Github Pages, Canva, Miro, Trello, Overleaf

Project Areas: Computer Security, Database and Analytics

Project Supervisor: Lizy Abraham

<https://georginawalsh.github.io/FYP-Website/>

by **Georgina Walsh**



BSc (Hons) in Computer Forensics and Security

The BSc (Hons) in Computer Forensics & Security is a 4-year ab-initio Level 8 programme.

The aim of the BSc (Honours) in Computer Forensics & Security programme is

to produce graduates with the necessary knowledge, skills and expertise to pursue a career in computer security and computer forensics. Graduates should be able to build, use and adapt software and hardware solutions to conduct investigations or to secure networks and systems. The course will also confer on the graduates a set of personal and professional attributes that will allow them greater flexibility in the development of their own career options. Specifically the course aims to produce graduates who can

- Reason and problem-solve to a high level in the area.
- Design specific security solutions.
- Provide security support to systems development teams.
- Participate constructively in the deployment of new security technologies.
- Participate in the development of forensic solutions in response to a security solution.
- Undertake research-based projects where required.
- Manage technology-based projects that require the handling of innovation and change in dynamic environments.
- Present and communicate clearly.
- Work with others in a group environment.



Academic Title:

A Web-based Software Module to Combat Malvertising and Malicious URLs

Technologies: Data Modeling and Clasification, Web based plug in extension. AWS

Project Areas: Computer Networks, Computer Security, Software Development: (Back End / Front End / Web)

Project Supervisor: John Sheppard

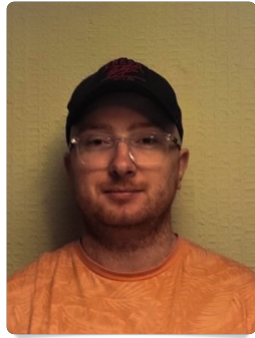
<https://barnesian.github.io/MyFYPWebsite/>

Malverticus Shield

#33 / TL225

by Ian Barnes





StegCatcher - Hidden Data Detector

#34 / TL225

Academic Title:

Steganography Detection Plugin for Autopsy

Technologies: Autopsy, Java, Python, Github, Google Colab, Kaggle Kernels, Machine Learning, Deep Learning

Project Areas: Computer Networks, Database and Analytics, Media Development and Production

Project Supervisor: John Sheppard

<https://andrewbaxter123.github.io/>

by Andrew Baxter



Attack Shield

#35 / TL225

Academic Title:

System Attack Landscape

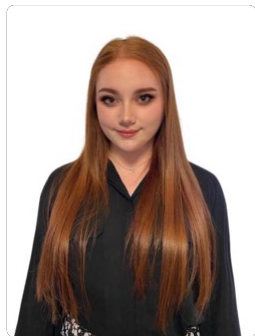
Technologies: Loggly, Amazon web services, word, formspree, Overleaf, Online Gantt: Jira: W3schools, Python, ,

Project Areas: Computer Security

Project Supervisor: Bernard Butler

<https://killian-halpin.github.io/>

by Killian Halpin



Early Days

#36 / TL225

Academic Title:

Machine Learning-based Assessment of Relationship Compatibility and Romantic Dealbreakers

Technologies: Python, HTML, SQLite, SQLAlchemy, CSS, Github, Git, Render, K-Modes Clustering, PostgreSQL, Pandas

Project Areas: Database and Analytics, Software Development: (Back End / Front End / Web)

Project Supervisor: Clodagh Power

<https://saoirseodonovan.github.io/fyp/>

by Saoirse O'Donovan



BSc (Hons) in Creative Computing

The **BSc (Hons) in Creative Computing** is a four-year Level 8 programme. Many students transfer to the final year of the programme having completed the Level 7 **BSc in Multimedia Applications Development**.

The aim of the BSc (Hons) in Creative Computing is

To provide students with the knowledge and practical experience of industry standard innovative tools and technologies, within the domains of technology and creative media. This enables graduates to pursue a career in both the computing and creative media industry. Ireland's globally recognised digital and creative economy has experienced significant growth in recent years. Enterprise Ireland aims to expand even further the export footprint of this growing sector, and skilled workers are required to do this. Creative Computing graduates will be qualified to fulfil the needs of this sector and many others.



Academic Title:

Underwater - Original Song and Music Video with 2D Animation

Technologies: Logic Pro X, ShotGrid, Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop, Trello

Project Areas: Animation, Digital Graphic Design, Open Source

Project Supervisor: Jacqui Woods O'Brien

<https://chitasjessica.wixsite.com/portfolio/about-6>

Underwater

#41 / TL250

by Jessica Chitas





3D Printing & Prosthetic Limbs

#42 / TL250

Academic Title:

Empowering Access to Prostheses with 3D Printing

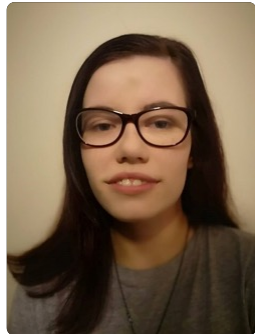
Technologies: Fusion 360, UltiMaker Cura, Chitubox, Ender 3 V2 Neo, Elegoo Mars 3, Sovol SV07

Project Areas: Open Source, Personal Independent Project

Project Supervisor: Patrick McInerney

<https://markflynn20025214.wixsite.com/fyp-showcase>

by Mark Flynn



The Witches Outcast

#43 / TL250

Academic Title:

An Animated Short Story Using 3D and 2D

Technologies: Procreate, Adobe Premiere Pro, Adobe After Effects

Project Areas: Animation, Media Development and Production

Project Supervisor: Jacqui Woods O'Brien

<https://lauryngore.github.io>

by Lauryn Gore



Runnin

#44 / TL250

Academic Title:

2D-animated Lyric Video with Artist Interview

Technologies: Adobe Animate, Adobe Illustrator, Adobe Premiere Pro, Adobe After Effects, Procreate

Project Areas: Animation, Digital Graphic Design

Project Supervisor: Clodagh Power

<https://goughmia.wixsite.com/runnin>

by Mia Gough





Ascend

#45 / TL250

Academic Title:

Exploring Gameplay Mechanics in a Third-person Action-adventure Game Developed in Unreal Engine 5

Technologies: Unreal engine 5, Maya 2024, Github

Project Areas: Game Development, Media Development and Production, Software Development: (Back End / Core / Front End)

Project Supervisor: Patrick McInerney

<https://20079445.wixsite.com/john-murphy-project>

by John Murphy



AmpleMart

#46 / TL250

Academic Title:

Website for Selling Refurbished Electronic Gadgets

Technologies: React JS, nodeJS, Express, Mongoddb, Redux, Github

Project Areas: Database and Analytics, Software Development: (Back End / Front End / Web)

Project Supervisor: Sonya Hogan

<https://amplemartlandingpage.my.canva.site/home>

by Binu Peter



Gracie Massage

#47 / TL250

Academic Title:

Web Application with Booking System and Shopping Cart for a Small Start-up Massage Business

Technologies: IntelliJ, HTML, JavaScript, CSS, Semantic UI, Firebase

Project Areas: Software Development: (Back End / Front End / Web)

Project Supervisor: Deirdre O'Halloran

<https://scnlshr.wixsite.com/sarah-scanlon-fyp>

by Sarah Scanlon



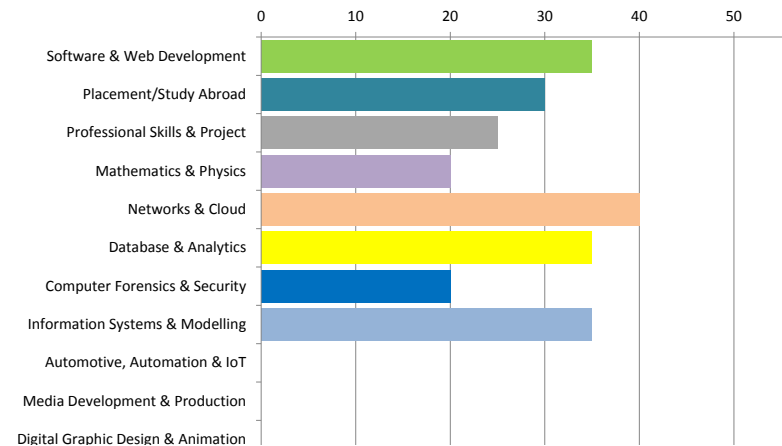
BSc (Hons) in Information Technology Management

The **BSc (Hons) in Information Technology Management** is a one-year add-on to the **BSc in Information Technology**. Across the four years of the programmes there is an emphasis on developing strong networking and cloud computing skills allied to a core of database and information systems knowledge.

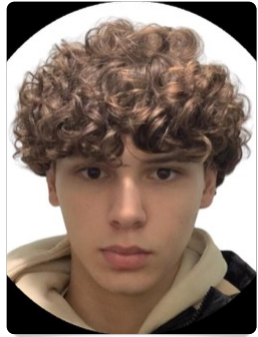
The aim of the BSc (Hons) in Information Technology Management is

to provide graduates with a focus on the integration of heterogeneous computer systems and the management of various ICT services to support organisations to use diverse types of technology effectively and efficiently. It also aims to provide graduates with the knowledge and skills to handle and transmit data in a secure and safe manner across different types of networks.

The breakdown of course credits across the four years on these programmes is illustrated by the following chart.



A distinctive feature of this programme is that the final year project is worth 10 credits. There is also an emphasis on data-related and research-led projects as distinct from development-type projects.



Academic Title:

Incognito Info: Fast or Last? Assessing the Impact of Data Masking Techniques on Healthcare Database Systems Performance

Technologies: MongoDB, VsCode, AWS

Project Areas: Database and Analytics

Project Supervisor: Sonya Hogan

<https://nazarbill.github.io/Landing-Page/>

#37 / TL225

by Nazar Biletskyy



Academic Title:

Grapple Dash 2D Platformer Game with Leader Board and Multiplayer Cooperative Play Functionality

Technologies: Unity, C#, Databases, SQL, GitHub, Visual Studio Code

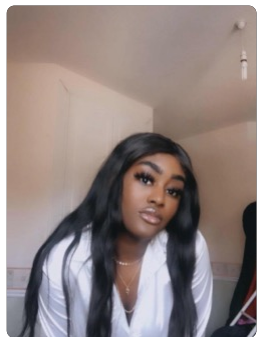
Project Areas: Computer Security, Information Systems and Modelling, Internet of Things

Project Supervisor: Rahul Mhapsekar

<https://20090657.wixsite.com/leons-fyp-project>

#38 / TL225

by Leon Chapman



Academic Title:

The Chronicles of Carlson The Chronicles of Carlson Cooking Website

Technologies: JavaScript, Visual Studio Code, Semantic UI, HTML and CSS

Project Areas: Software Development: (Front End)

Project Supervisor: Richie Lyng

<https://200904236.wixsite.com/faithlanding-page>

Not presenting

by Faith Iwere





Experimentation with Transkribus

#39 / TL225

Academic Title:

Experimentation with Transkribus, Handwritten Text and AI Training

Technologies: transcribus, xmp, myphpadmin, vs code

Project Areas: Artificial Intelligence, Personal Independent Project, Work Based Project, Software Development: (Web)

Project Supervisor: Brenda O'Neill

<https://mahfous17k.wixsite.com/final-year-project>

by Mahfous Karimu



Integrating Data for Compassionate Cite

Not presenting

Academic Title:

Creation and Integration of a Database and Visualisation for Homeless Shelters in a City

Technologies: Power BI, SQL, visual studio code,

Project Areas: Database and Analytics

Project Supervisor: Patrick McInerney

<https://osasolague1.wixsite.com/my-site-1>

by Osamudimen Olague



Michael Cooley Collection

#40 / TL225

Academic Title:

Creation of Cataloguing Tool for Special Collections

Technologies: MongoDB, HTML, CSS, Dublin Core,

Project Areas: DevOps, Software Development: (Web)

Project Supervisor: Brenda O'Neill

<https://20094277.wixsite.com/my-site-2>

by Daniels Zabello



BSc (Hons) in Software Systems Development

This programme is designed to equip students with the skillset required to work in an array of computing roles in industry. Students will develop secure software with the most modern methods of software technology for all areas of application, and they will have the ability to analyse, select, and utilise appropriate emerging technologies for the development of a software solution. They will have the ability to store, manage and mine data for businesses, and to develop systems to enable organisations to extract value from such data.

Companies in Ireland are seeking software developers who possess multi-disciplinary skills in the areas of Business, Psychology or Languages. With this in mind students will have the option to study those areas as elective option from year 2.

In year 3 there is an opportunity for students to complete work placement or study abroad. Studying abroad has become a popular choice for all our students especially those who have chosen the European language elective.

Subject Groups	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	
Software & Web Development	Programming Fundamentals 1	Programming Fundamentals 2	Data Structures & Algorithms 1	Software Development Tools	Flexible Semester Placement / Study Abroad / Voluntary Organisation Project	Mobile App Development 1	Agile Software Practice	Mobile App Development 2	
	Website Development 1	Website Development 2	User Experience	Web App Development 1		Web App Development 2	Distributed Systems		
Database, IS & Modelling	Systems Analysis Design	Intro to Software Engineering	Database Fundamentals	Database Systems		NoSQL Databases			
		Business Information Systems	Enterprise Applications			Digital Transformation and IS	Enterprise Systems Architecture		
Data Science	Mathematics Fundamentals	Statistical Analysis				Further Statistics	Data Science in Practice	Data Science Essentials	
								Artificial Intelligence	
Computer Systems & Security	Computer Systems 1	Computer Systems 2	Computer Networks	Intro to Computer Security			Automated Cloud Services		Application Security
Professional Studies	Communication Skills			Professional Practice				Project 1	Project 2 (10 credit)
Technology Commercialisation			Creative Problem Solving	Integrated Marketing		Technology Entrepreneurship	Project Management	Technology Commercialisation	
Psychology			Introduction to Psychology Solving	Development Psychology		Introduction to Social Psychology	Intro to Cognition & Perception	Management Psychology	
French			French B1.3	French B1.4		Intercultural Bus Context	French B2.1	French B2.2	
German			German B1.3	German B1.4		Intercultural Bus Context	German B2.1	German B2.2	

Pick any 3 modules in semester 8



Academic Title:

First Time Fit-humble Beginnings for Y A Fitness Web Application Integrating Google Fitness Store API for Personalized User Insights

Technologies: React, MongoDB, NodeJS, Javascript, ChartJS, Google Console, FitnessAPI

Project Areas: Database and Analytics, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Richie Lyng

<https://jamconn.github.io/>

#48 / TL235

by **Jamie Conlon**



Academic Title:

Sealed Encryption Messaging Application

Technologies: Java, Google Firebase, Android Studio, Trello, Emulators

Project Areas: Database and Analytics, Software Development: (Mobile Native)

Project Supervisor: Catherine Fitzpatrick

<https://liamcrowe2502.wixsite.com/sealed>

#49 / TL235

by **William Crowe**



Academic Title:

Family Trip Android Based Social Media Holiday Planning Application

Technologies: Android Studio, Github, Kotlin, Firebase Authentication, Firebase Storage

Project Areas: Software Development: (Mobile Native)

Project Supervisor: Thakshila Wedage

<https://cjamesgrace.wixsite.com/familytripproject>

#50 / TL235

by **Conor Grace**





Dog Breed Identifier

#51 / TL235

Academic Title:

Web App for Dog Breed Identification Using Machine Learning

Technologies: Python, TensorFlow, FastAPI, React, MongoDB, Vite.js, Docker

Project Areas: Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Michael McMahon

<https://dominikkawka.github.io/>

by Dominik Kawka



ReactStock: Dynamic Inventory Management

#52 / TL235

Academic Title:

Web Application-based Inventory Stock Management System

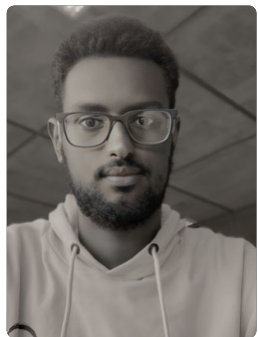
Technologies: React.js, Node, js, MongoDB

Project Areas: Software Development: (Back End / Front End)

Project Supervisor: Lizy Abraham

<https://maciejmarchel14.wixsite.com/fianl-year-project-1>

by Maciej Marchel



Hydration Mate: Your Personal Hydration

#53 / TL235

Academic Title:

Hydration Mate: An Android Application for Personalized Water Intake Tracking

Technologies: Kotlin, Android Studio, Android native frameworks, local storage, Firebase.

Project Areas: Software Development: (Mobile Native)

Project Supervisor: Muhammad Iftikhar Umrani

<https://maxamed-maxamed.github.io/FYP-Hydration-app-Mate/>

by Maxamed Maxamed





Fitness Fixed

#54 / TL235

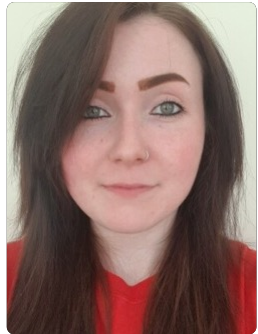
Academic Title:

A Web App Used to Filter a User's Social Media Content and Fitness Lifestyle

Technologies: JavaScript, Python, Github, Trello, Firebase

Project Areas: Cloud Computing, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Sonya Hogan

<https://github.com/fionn-moran/FitnessWebApp>
by **Fionn Moran**

Bookmark-it: Power in Self-publishing

#55 / TL235

Academic Title:

A Dyslexia-friendly Platform, Empowering New Authors to Self-publish and Promote Books

Technologies: HTML, CSS, Javascript, Node, Express, MongoDB, OpenDyslexic, PayPal, Github, Visual Studio

Project Areas: Software Development: (Back End / Front End / Web)

Project Supervisor: Michael McMahon

<https://lizne.github.io/>
by **Elizabeth Neary**

Giggly

#56 / TL235

Academic Title:

Social Networking Platform Facilitating Dynamic Joke Sharing and Engaging User Interaction

Technologies: Java, Android studio, Firebase Authentication, Firebase Realtime database, Firebase Storage

Project Areas: Software Development: (Back End / Core / Front End / Mobile Native)

Project Supervisor: Rizvi Syed

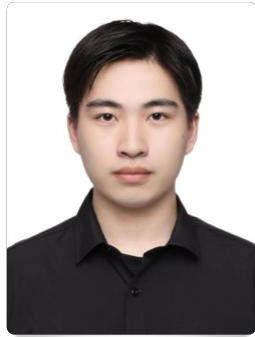
<https://evansullivan007.wixsite.com/giggly>
by **Evan Sullivan**

BSc (Hons) in Software Systems Practice (NUIST)

The aim of the BSc (Hons) in Software Systems Practice (NUIST) is

to provide overarching and theoretical frameworks so that graduates will have knowledge of advanced concepts in software development methodologies and disciplines. They will be able to select appropriate paths in designing complex software or in developing computer-based systems. As individuals, they will work effectively independently, but will also experience team work, with the challenges and benefits this can offer. At the heart of the programme is an emphasis on practical development of computing skills, underpinned by a strong theoretical reasoning.

The programme aims to provide an opportunity for students who pursue three years successful education on the NUIST BSc in Software Engineering, the opportunity to complete their fourth year of education in a dedicated one-year add-on degree in SETU.



Academic Title:

Spring Boot Powered Goods Supply Platform Management System

Technologies: Springboot, Vue.js; Kafka, Mysql, Mybatis-plus, Redis

Project Areas: Database and Analytics, Software Development: (Back End / Front End / Web)

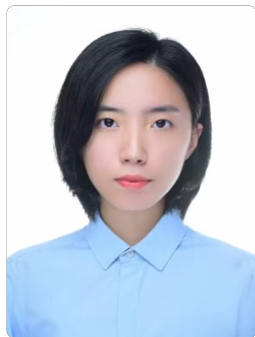
Project Supervisor: Jacqui Woods O'Brien

<https://dante-cjh.github.io/fyp-goods-galore/landing%20page/>

Goods Galore

Not presenting

by Jiahan Chen



Academic Title:

A 2D Roguelike Adventure Game on Windows Computer

Technologies: c#, unity, photoshop, git, dotpict, visual studio

Project Areas: Game Development

Project Supervisor: Patrick McInerney

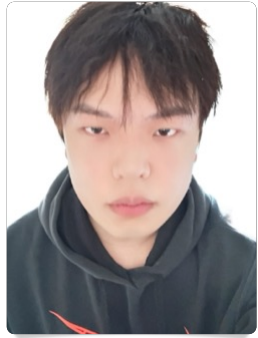
<https://github.com/Bdeparture>

Wasteland Odyssey

Not presenting

by Sisi Chen





Academic Title:

Recipe Sharing Web Application

Technologies: React, Express, MongoDB

Project Areas: Software Development: (Mobile Hybrid)

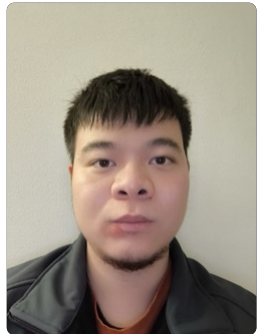
Project Supervisor: Michael McMahon

<https://github.com/foxeatbread/Fyp.git>

Recipe Web App

Not presenting

by Haoxuan Gu



Academic Title:

Students Recipe App

Technologies: node.js, JavaScript, MongoDB, Git, ReactNative

Project Areas: Software Development: (Mobile Native)

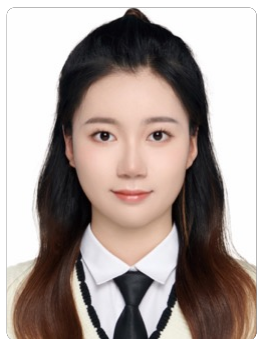
Project Supervisor: Catherine Fitzpatrick

<https://yifan113.github.io/>

Student Spoon

Not presenting

by Yifan Gu



Academic Title:

User-centric Design and Development for Online Restaurant Ordering System

Technologies: JavaScript, jQuery, layui, Java, MySQL

Project Areas: Software Development: (Back End / Front End / Web)

Project Supervisor: Opeyemi Bamigbade

<https://yisihuang.github.io/>

FeastClick

Not presenting

by Yisi Huang





TruckTrack: Smart Trucking Data Power

Not presenting

Academic Title:

TruckTrack: Fleet Tracking & Management

Technologies: Vue, Springboot, MyBatisPlus

Project Areas: CI/CD & Testing, Information Systems and Modelling, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Syed Rizvi

<https://github.com/RuidaJiang33/fyp-TruckTrack>

by Ruida Jiang



GameTrack

Not presenting

Academic Title:

Player Data Analysis Management System

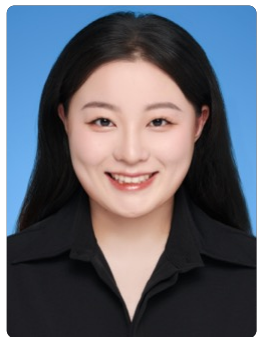
Technologies: Vue, Pinia, Pandas, node.js, MongoDB

Project Areas: Database and Analytics, Software Development: (Back End / Front End)

Project Supervisor: Oeyemi Bamigbade

<https://www.github.com/Onion-L/GameTrack>

by Xiang Li



Lovely Transfer

Not presenting

Academic Title:

Neural Network Based Image Style Transformation Platform

Technologies: React.js, python, VGG16, Tensorflow, MySQL, VSCode

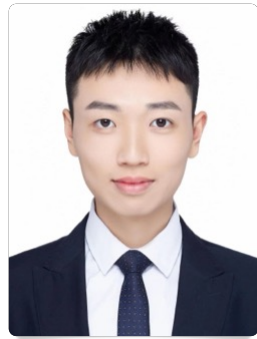
Project Areas: Artificial Intelligence, Database and Analytics, Software Development: (Back End / Front End)

Project Supervisor: Syed Rizvi

<https://yvonneliyq.github.io/>

by Yangqing Li





AgroGuard

Not presenting

Academic Title:

An Agricultural Online Community Platform with Target Detection-based Plant Disease Detection

Technologies: Pytorch, Vue.js, Springboot, Opencv, Kafka, Mongodb, Dubbo

Project Areas: Artificial Intelligence, Database and Analytics, Software Development: (Back End / Front End / Web)

Project Supervisor: Sinead O'Neill

<https://agcy.github.io/fyp-AgroGuard/landing%20page/>

by Haopeng Liang



Base Defense: The Last Stand

Not presenting

Academic Title:

Seek to Survive: A Comprehensive Design and Development of a Side-scrolling Survival Game Incorporat

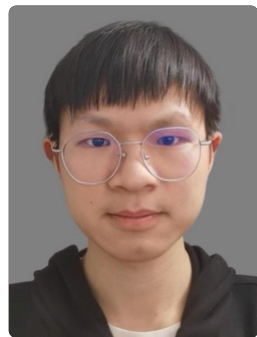
Technologies: Godot, GDScripts, C#,

Project Areas: Game Development

Project Supervisor: Sinead O'Neill

https://1730177143.github.io/FYP_doc/

by Long Liu



Sing with Vocarina

Not presenting

Academic Title:

Music Producing and Sharing Application with Voice Synthesizing and Tuning

Technologies: TypeScript, React, Python, Django, MySQL, Azure

Project Areas: Software Development: (Core / Front End / Web)

Project Supervisor: Lasantha Thakshila Wedage

<https://lyw02.github.io/vocarina-landing-page/>

by Yiwei Liu





GreenSort: Better Sorting and Recycling

Academic Title:

Android Based Garbage Sorting and Recycling App

Technologies: android studio, Firebase, TensorFlow

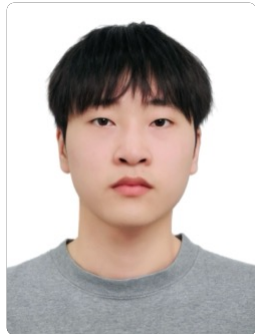
Project Areas: Software Development: (Mobile Native)

Project Supervisors: Sinead O'Neill, Siobhan Roche

<https://wszfln.github.io/>

Not presenting

by Yingying Lu



Simple-Video-Net

Academic Title:

Live Streaming Media Server Based on Real Time Streaming Protocol

Technologies: Vue, FFmpeg, MySQL, Node.js, Golang

Project Areas: Media Development and Production, Software Development: (Back End / Front End)

Project Supervisor: Rahul Mhapsekar

<https://sunmingju.github.io/FYP-pages/>

Not presenting

by Mingju Sun



CineSlot: Your Ticketing Guide

Academic Title:

A User-centered Online Movie Ticketing System

Technologies: React, Node.js, Next.js, Firebase

Project Areas: Software Development: (Back End / Front End / Web)

Project Supervisor: Opeyemi Bamigbade

<https://wang-jingyi09.github.io/>

Not presenting

by Jingyi Wang





LitConnect: Tailored Reading & Community

Not presenting

Academic Title:

Intelligent Book Sharing and Communicating System That Includes Recommendations and Grouping

Technologies: JavaScript, React, Node.js, MySQL

Project Areas: Artificial Intelligence, Information Systems and Modelling, Software Development: (Back End / Front End / Web)

Project Supervisor: Jacqui Woods O'Brien

https://github.com/Yolanda2002/FYP_LitConnect

by Jia Yang



A Place for Emotion Companion

Not presenting

Academic Title:

Comfort Talker

Technologies: Vue, Express, Websocket

Project Areas: Software Development: (Back End / Core / Front End)

Project Supervisor: Michael McMahon

<https://github.com/20104796/fyp.git>

by Yuanzhe Yang



Globetrot Guru

Not presenting

Academic Title:

A Web Application Based on Spring Boot for Tourists Who Want to Travel

Technologies: JAVA, JQuery, Springboot, MYSQL

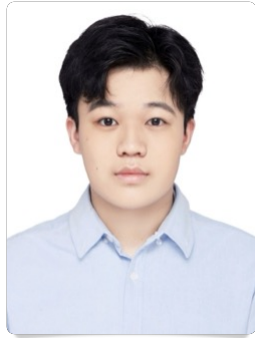
Project Areas: Software Development: (Back End / Front End / Web)

Project Supervisor: Jacqui Woods O'Brien

<https://sirui125.github.io/>

by Sirui Yao





MedGraphQA

Not presenting

Academic Title:

Medical Question Answering System Based on Knowledge Graph

Technologies: neo4j, react

Project Areas: Artificial Intelligence, DevOps, Media Development and Production, Software Development: (Core / Mobile Native)

Project Supervisor: Michael McMahon

<https://github.com/yym9420/final-year-project.git>

by Yiming Yu



Spiral: The Dynamic Rhythm Game

Not presenting

Academic Title:

Spiral: An Android Rhythm Game Based on Unity

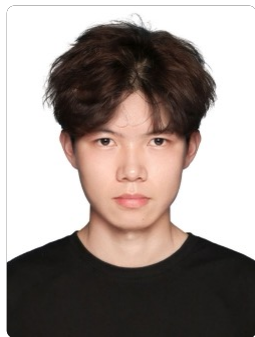
Technologies: Unity Engine, Android Studio, C#

Project Areas: Digital Graphic Design, Game Development, Software Development: (Mobile Native)

Project Supervisor: Richie Lyng

<https://sbzng.github.io/landingPage/>

by Shaobo Zang



Emerald-ParcelHub: Delivery Redefined

Not presenting

Academic Title:

Spring Boot Express Parcel Virtual Delivery Platform with Visual Tracking

Technologies: Next.js, React, Java, Vercel, MySQL, Node.js, RabbitMQ, SpringBoot, Redux, Firebase

Project Areas: Database and Analytics, DevOps, Information Systems and Modelling, Personal Independent Project, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Richard Lacey

<https://dovis01.github.io/>

by Shijin Zhang





**SE
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Technological
University

SECTION 2

HIGHER DIPLOMA IN SCIENCE — HDIP

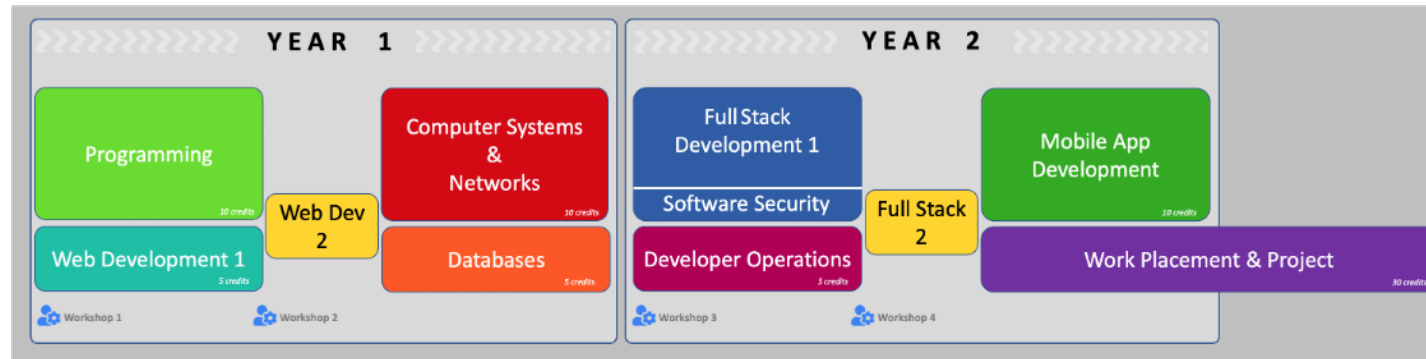
LIST OF FINAL YEAR AND RESEARCH PROJECTS

SPONSORED BY

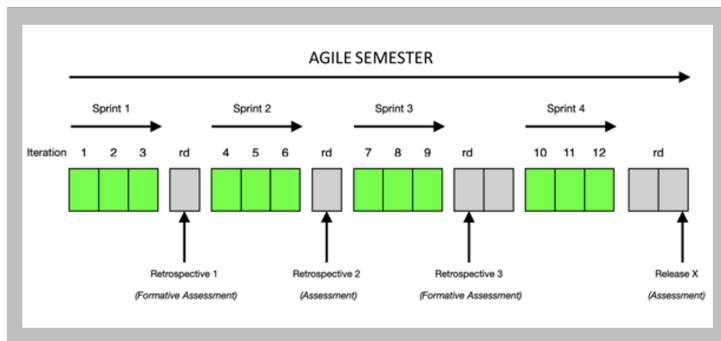
KARGO

Higher Diploma in Science in Computer Science (Online)

The ONLINE **Higher Diploma in Science in Computer Science** is an accelerated 24-month ICT Conversion Course focused on full stack oriented development. It is designed to allow honours graduates from non-computing disciplines to acquire the industry-relevant ICT and software development skills, expertise and practical experience required to become suitable candidates for employment in the ICT domain in general and in software development in particular.



As an accelerated course, there is an average time commitment of 16 hours per week required. Students with less ICT experience may need to factor in more time. The course is delivered using our award-winning online delivery platform—TutorStack. Pioneered on this programme with industry, we follow an “Agile Semester” approach, typically consisting of 4, three-week sprints followed by 1-week breaks for retrospective, after each sprint.

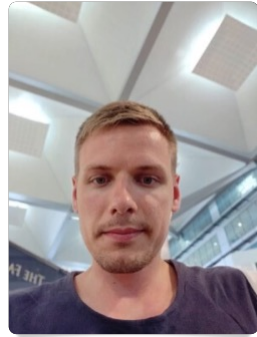


In addition there is a six lesson on-demand module each summer. Online delivery over the two years is supplemented by four onsite workshops to further enhance and deepen the learning experience, and learning community. Although not mandatory, these should be deemed essential. While all taught modules are delivered within two years, Work Project & Placement runs into the following year so as not to over burden students.

For a more in depth preview of the course content and structure, please watch this [video](#).

Try out a sample of the course [here](#).

Find out more [here](#).



Academic Title:

Hybrid App for Monitoring Food Intake

Technologies: Flutter, Golang, Chi framework, Firebase, Docker

Project Areas: Open Source, Personal Independent Project, Software Development: (Back End / Mobile Hybrid)

Project Supervisor: Richie Lyng

<https://bit.ly/3UKCzwx>

Food Log

Not presenting

by Ignas Baranauskas



Academic Title:

Server-rendered Web App with Hateoas

Technologies: Python, Django, HTMX, SQLite, Bootstrap

Project Areas: Open Source, Personal Independent Project, Software Development: (Back End / Web)

Project Supervisor: Dave Hearne

<https://circleorange.github.io/>

Task Management Web App

Not presenting

by Piotr Bielski



Academic Title:

A Full Stack Web Application for Assignment Submission and Grading

Technologies: Skeleton, Supabase, SvelteKit, Tailwind, TypeScript

Project Areas: Open Source, Personal Independent Project, Software Development: (Back End / Front End / Web)

Project Supervisor: Catherine Fitzpatrick

<https://ianbl8.github.io/submissions/>

Submissions

#57 / TL238

by Ian Blake





GrubShare: One App, Many Tastes

Not presenting

Academic Title:

GrubShare: An Application to Share Recipes and Meal Ideas

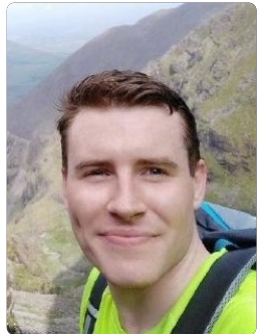
Technologies: React Native, JavaScript, Firebase

Project Areas: Database and Analytics, Personal Independent Project

Project Supervisor: Mary Lyng

<https://dannydecaf.github.io/>

by Daniel Coffey



React BIM File Console

Not presenting

Academic Title:

BIM File Console: React Platform Console to View and Interact with Files in a BIM Model

Technologies: JavaScript, React, MongoDB, internal platform services

Project Areas: Database and Analytics, Information Systems and Modelling, Work Based Project, Software Development: (Front End / Web)

Project Supervisor: Sonya Hogan

<https://darragh-c.github.io>

by Darragh Conneely



Ensemble

Not presenting

Academic Title:

A Multi-platform Catalogue Application for Community Sharing

Technologies: Flutter, Dart, Firebase

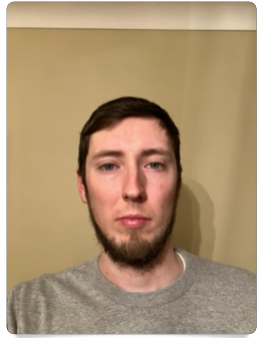
Project Areas: Personal Independent Project, Software Development: (Mobile Hybrid)

Project Supervisor: Richie Lyng

<https://ensemble2024.glitch.me/>

by Ellen Cooney





Academic Title:

XMDM - Web Application for Managing Parameters in Other Applications

Technologies: Scala, Play Framework, PostgreSQL, Docker, REST API

Project Areas: Work Based Project

Project Supervisor: Deirdre O'Halloran

<http://bit.ly/49fyVjY>

XMDM

Not presenting

by David Cotter



Academic Title:

EV Car Hire Reservation Web Application

Technologies: Node.js, React.js, Express.js, MongoDB, Vercel

Project Areas: Work Based Project, Software Development: (Web)

Project Supervisor: TJ McDonald

<https://damiendriver.github.io/evcarhireireland/>

EVCarHireIreland.ie

#58 / TL238

by Damien Driver



Academic Title:

Infrastructure as Code for Kubernetes

Technologies: Go, Kubernetes, AWS, Kubebuilder, Docker

Project Areas: CI/CD & Testing, Cloud Computing, DevOps, Personal Independent Project

Project Supervisor: John Rellis

<http://kraken-iac.eoinfennessy.com>

Kraken

#59 / TL238

by Eoin Fennessy





All Weight is Beautiful

#60 / TL238

Academic Title:

Interactive Art Generator Using a Digital Weighing Scale API

Technologies: Weighing scale, Scales API, Dataset, Json, P5.js, React components, Shapes, Web app gallery, Random
Project Areas: Animation, Digital Graphic Design, Internet of Things, Open Source, Personal Independent Project, Software Development: (Web)
Project Supervisor: Sinead O’Riordan

https://github.com/fitzdora/reactAwib_pa.git

by Isadora Fitzgerald



Markify

Not presenting

Academic Title:

A Web App for Managing Quality in Contact Centers

Technologies: Sveltekit, NodeJS, MongoDB, ChartsJS, JOI, Mongoose, BCrypt, Hapi, API, Bootstrap
Project Areas: Software Development: (Web)
Project Supervisor: Dave Hearne

<https://sites.google.com/view/markify-project-page/home>

by Adam Gibson



3D Interactive Timeline

#61 / TL238

Academic Title:

Interactive Timeline-using 3D Elements to Create an Interactive Timeline

Technologies: React, 3D WebApp, Timeline, Full-Stack, Next.js, Typescript,
Project Areas: Animation, CI/CD & Testing, Database and Analytics, DevOps, Work Based Project, Software Development: (Front End / Web)
Project Supervisor: Mary Fitzgerald

<https://fabulous-splashy-riddle.glitch.me/>

by Renato Goedert





Academic Title:

'SpareRoom' - A Student Accommodation Web Application

Technologies: Hapi, Svelte, MongoDB, Netlify, JWT, Javascript

Project Areas: Software Development: (Web)

Project Supervisor: Mary Fitzgerald

<https://spareroomlandingpage.netlify.app>

SpareRoom

Not presenting

by Mairead Holton



Academic Title:

Automated Document Regression Testing Tool

Technologies: React, Node, Python, Kotlin

Project Areas: CI/CD & Testing, Work Based Project, Software Development: (Back End / Mobile Hybrid)

Project Supervisor: Catherine Fitzpatrick

<https://dart-landing-page.onrender.com>

Dart

Not presenting

by Matthew Hornby



Academic Title:

The Ultimate Mobile Festival Companion

Technologies: Firebase, Kotlin

Project Areas: Personal Independent Project, Software Development: (Mobile Native)

Project Supervisor: Mary Lyng

<https://bit.ly/30FLtsk>

Festi-Friend

Not presenting

by Linda Lynch





Academic Title:

LearnLocal

Technologies: React, Chakra, Firebase, Zustand

Project Areas: Software Development: (Back End / Front End)

Project Supervisor: Ruth Barry

<https://rodmacbr.github.io/learnlocalwebsite/>

LearnLocal

Not presenting

by **Rodrigo Machado da Silva**



Academic Title:

Neo ChatBot Creator Web App

Technologies: React, Typescript, Javascript, Tailwind CSS, FastAPI Python, Firebase, OpenAi, ElevenLabs

Project Areas: Artificial Intelligence, Software Development: (Back End / Front End / Web)

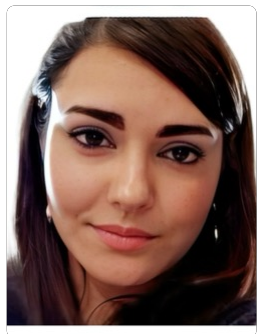
Project Supervisor: John Rellis

<https://emanlapaz.github.io/NeoLandingPage/>

Neo ChatBot

Not presenting

by **Eugenio Manlapaz**



Academic Title:

Android Native Application for the Management of Common ADHD Challenges

Technologies: Android, Kotlin, SQLite, Room, Jetpack Compose

Project Areas: Personal Independent Project, Software Development: (Mobile Native)

Project Supervisor: Mary Lyng

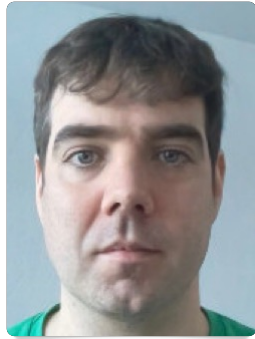
<https://linktr.ee/carolmarjara>

FocusSphere

Not presenting

by **Carol Marjara**





My Feedback Form

Not presenting

Academic Title:

A Web App Used to Create and Deploy Online Surveys

Technologies: Typestripe, React, Python FastAPI, PostgreSQL

Project Supervisor: Catherine Fitzpatrick

<https://bit.ly/3SB5bXp>

by Gregory Mc Carthy



SeaSplash

Not presenting

Academic Title:

Mobile App Promoting Safe Swim Locations for Swimmers

Technologies: Flutter SDK, Dart, Android, Firebase Auth, Firebase FireStore, Google Maps API

Project Areas: Personal Independent Project, Software Development: (Mobile Native)

Project Supervisor: Catherine Fitzpatrick

<https://bit.ly/hdipseasplash>

by John Mc Donald



Server Life Cycle Manager

Not presenting

Academic Title:

A Web Application for Managing it Equipment Primarily in Data Center

Technologies: NodeJs, Hapi, Handlebars, Tailwind CSS, MongoDB, Openstack, Data Center

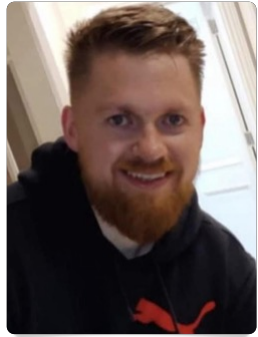
Project Areas: Computer Networks, Computer Security, Database and Analytics, Open Source, Work Based Project, Software Development: (Back End / Core / Front End / Web)

Project Supervisors: TJ McDonald, Jerry Horgan

<https://csibman27.github.io/>

by Tibor Molnar





Academic Title:

WoofWatch

Pet Welfare Through IoT: A Raspberry Pi and Mobile Based Pet Monitoring and Interaction System

Technologies: Networking, Scripting, IoT

Project Areas: Internet of Things, Personal Independent Project

Project Supervisor: John Rellis

<https://donaldo1991.github.io/woofWatch/>

Not presenting

by Donal Murphy



Academic Title:

AO-AutoScaler Operator

An Operator That Enables Dynamic Scaling of an Application on OpenShift/Kubernetes

Technologies: Kubernetes, Openshift, Operators, Docker, Golang

Project Areas: Cloud Computing, DevOps, Open Source, Software Development: (Back End)

Project Supervisor: John Rellis

<https://conorom1.github.io/AO-Autoscaler-Operator/>

#62 / TL238

by Conor O'Malley



Academic Title:

SiteVisor

Digital Twin Application for Buildings Monitoring and Asset Management

Technologies: Kubernetes, Kafka, Strimzi, Three.js, Django, SvelteKit, Websocket

Project Areas: Cloud Computing, Internet of Things, Open Source, Personal Independent Project, Software Development: (Web)

Project Supervisor: Caroline Cahill

<http://bit.ly/49A3foT>

#63 / TL238

by Grzegorz Piotrowski





Academic Title:

KCloud

IIOT Customizable Solution for Data Transfer in Small to Medium Industrial Control

Technologies: Python, SQLite, Flask, MySQL, Node JS, Frappe Charts, Charts JS, Kotlin, Svelte, Swagger

Project Areas: Internet of Things, Work Based Project

Project Supervisor: Caroline Cahill

<http://www.djroche.ie/#kcloud>

#64 / TL238

by David Roche



Academic Title:

SwapN

Second Hand Shopping App: SwapN

Technologies: Kotlin, Firebase, Google Colud, Stripe

Project Areas: Software Development: (Mobile Native)

Project Supervisor: Dave Hearne

<https://nat1902.wixsite.com/final-project-showca>

Not presenting

by Natsumi Shimizu



Snapsite.pro

Academic Title:

Computer Vision and Natural Language Processing for Website Creation, Deployment and Hosting Tools

Technologies: Python, Machine Learning, Javascript, React

Project Areas: Artificial Intelligence, Automotive and Automation, Software Development: (Back End / Core / Front End)

Project Supervisor: Eamonn de Leastar

<http://www.snapsite.pro>

Not presenting

by Wojciech Skrzynski





Academic Title:

The Great Filter Ultimate Tech-talent Recruitment Tool

Technologies: Android Studio, Kotlin, Jetpack Compose

Project Areas: Software Development: (Mobile Native)

Project Supervisor: Catherine Fitzpatrick

<https://bit.ly/4a3jsDV>

Not presenting

by Gavin Soady



Academic Title:

Vimo.lt Cross-platform Mobile Application for Gaming Community

Technologies: Hapi, Node.js, MariaDB, Flutter, Dart

Project Areas: Personal Independent Project, Software Development: (Back End / Mobile Hybrid)

Project Supervisor: Catherine Fitzpatrick

<https://vimo.lt/setu>

Not presenting

by Vidmantas Valskis





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Technological
University

SECTION 3

MASTER IN SCIENCE PROGRAMMES —

MSC

● LIST OF FINAL YEAR AND RESEARCH PROJECTS

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KARGO

MSc in Computing (Enterprise Software Systems)

The aim of the MSc in Computing (Enterprise Software Systems) is

to produce graduates with the necessary knowledge, skills and expertise in the development and management of software systems. The course also confers on the graduates a set of personal and professional attributes that will allow them greater flexibility in the development of their own career options, over the span of their career. Specifically, the course aims to produce graduates who can:

- Reason and problem-solve to a high level in the context of enterprise software and its role in business, industry and research.
- Participate constructively in the strategic deployment of enterprise software in a mobile or cloud environment.
- Manage the development of high-quality enterprise software products and services.
- Undertake research-based projects, providing effective advice and leadership where required.



Academic Title:

Sentiment Analysis in E-learning: Understanding Student Engagement and Satisfaction

Technologies: Python

Project Areas: Machine Learning, Software Development: (Core)

Project Supervisor: Patrick Felicia

<https://github.com/20105650>

Sentiment Analysis in E-learning

#65 / Poster Board

by Britty Abraham



Academic Title:

A Comparative Study on the Provisioning Time of Terraform and Ansible in Infrastructure as Code

Technologies: Terraform, Ansible, AWS

Project Areas: Artificial Intelligence, DevOps

Project Supervisor: Jimmy McGibney

<https://bit.ly/4dKVBeg>

Comparative Study of Iac Tools

#66 / Poster Board

by Divya Maria Appachan



Academic Title:

Incorporating User Centred Approach in Agile Software Development

Technologies: ReactJs, Figma

Project Areas: Software Development: (Web)

Project Supervisor: Lizy Abraham

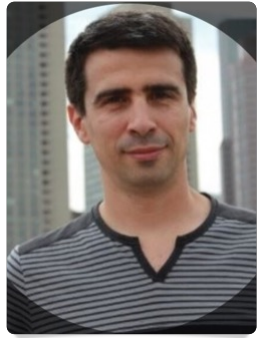
<https://github.com/serenebabu2022/Rentara>

User Centered Design in Software

#67 / Poster Board

by Serene Babu





Code Generation for RESTful API Services

#68 / Poster Board

Academic Title:

Automation of Code Generation for RESTful Services

Technologies: openapi-generator, REST, API, Openapi specification, swagger

Project Areas: Information Systems and Modelling, Software Development: (Core / Web)

<https://github.com/aborskiy/spec-to-rest-generator>

by Alexander Borskiy



Navigating Cloud: Challenges, Components

#69 / Poster Board

Academic Title:

Cloud Navigation: Challenges, Components, Strategies for Novices & Startups

Technologies: AWS, NodeJS, ReactJS, Javascript

Project Areas: Cloud Computing, Software Development: (Front End)

Project Supervisor: John Rellis

<https://github.com/mezebu/CloudLaunchSupport>

by Uchechukwu Henry Ezeigwe



Monolithic in the Microservices Era: A Comprehensive Analysis of Architectural Choices

#70 / Poster Board

Academic Title:

Technologies: Qualitative analysis

Project Areas: CI/CD & Testing, Cloud Computing, Database and Analytics, Information Systems and Modelling, Software Development: (Core)

Project Supervisor: Richard Lacey

<https://github.com/ashika-hussain/dissertation>

by Ashika Hussain





Securing Password Storage

#71 / Poster Board

Academic Title:

Securing Password Storage Using Hybrid Approach of Hashing and Encryption

Technologies: Database, AES Algorithm, Argon2 Algorithm, JavaScript

Project Areas: Computer Security, Software Development: (Web)

<https://sample.com>

by Farhaan Kaleem



Tutors Analytics & Visualisation

#72 / Poster Board

Academic Title:

A Learning Analytics Information Model and Visualisation Framework for Tutors

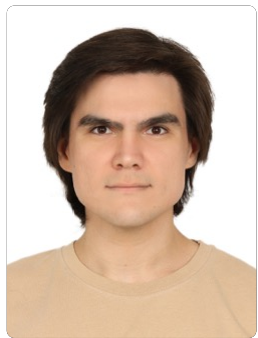
Technologies: Typescript, SvelteKit, Tailwind, Skeleton, SQL, Supabase, OAuth, RPC, E-Charts, PartyKit, WebSockets

Project Areas: Database and Analytics, Information Systems and Modelling, Open Source, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Eamonn de Leastar

<https://michael-kelly-20041540.netlify.app/>

by Michael Kelly



Academic Title:

Optimized Three-pivot Quicksort Algorithm

#73 / Poster Board

Technologies: Cuda, C++

Project Areas: Software Development: (Core)

Project Supervisor: Bernard Butler

<https://github.com/JavidMoradi/msc-computing>

by Javid Moradi





Autonomous Vehicle AI Solutions Architec

#78 / Poster Board

Academic Title:

AI in Autonomous Vehicle

Technologies: Sensors, Machine Learning, GPS, GNSS, human machine interface

Project Areas: Artificial Intelligence, Automotive and Automation, Database and Analytics, Game Development, Internet of Things, Machine Learning

<https://github.com/prratiik/cdk-alb-ec2>

by Pratik Ealumalai Mudliyar



AI to Bi: LLMs for Data Visualisation

#74 / Poster Board

Academic Title:

To Investigate the Current State of Art of LLMs for the Purpose of Replacing Dashboards

Technologies: GPT4/OpenAI API/ Python (pandas)/ Langchain/ Various AWS Resources +Bedrock/ Google Gemini/Mistral

Project Areas: Artificial Intelligence, Database and Analytics

Project Supervisor: Kieran Murphy

<https://github.com/LauraNorbury/DissertationSubmission>

by Laura Norbury



Artificial Intelligence for Hostels

#79 / Poster Board

Academic Title:

Integrating Artificial Intelligence for Optimising Hotel Productivity

Project Areas: Artificial Intelligence

Project Supervisor: John Sheppard

<https://github.com/renuppeterW20105518/AI.git>

by Renu Palappamannil Peter





Generative AI Code Migration Pipeline

#75 / Poster Board

Academic Title:

Building a Generative AI-powered Code Migration Pipeline for Application Modernisation

Technologies: Generative AI Models (e.g., OpenAI's GPT-3.5, GPT-4 Turbo, etc.)

Project Areas: Artificial Intelligence, CI/CD & Testing, Machine Learning, Software Development: (Core)

<https://github.com/emmaroche/generative-AI-powered-code-migration-pipeline>

by Emma Roche



Analysis of Cross-platform Development

#76 / Poster Board

Academic Title:

Analysis of the Use of Cross-platform Development

Technologies: Android, Flutter, Firebase, Kotlin, Dart

Project Areas: Software Development: (Mobile Native)

<https://bit.ly/4amyqEm>

by Ilia Tokarev



Web Performance: Mapbox vs. Google Maps

#77 / Poster Board

Academic Title:

Comparative Study: Location API Influence on Web App Performance - Mapbox vs. Google Maps

Technologies: MongoDB, Express.js, React, Node.js, Google Lighthouse, Mapbox and Google Maps API

Project Areas: Software Development: (Back End / Front End / Web)

<https://github.com/JohnMadhan07/dissertation.git>

by Madhan Kumar Venugopal



MSc in Computing (Information Systems Processes)

The aim of the MSc in Computing (Information Systems Processes) is

to provide graduates, from any discipline, with a broad sociotechnical perspective of modern information systems and their development. The socio–technical focus renders the MSc in Computing (Information Systems Process) philosophy and objectives as distinct from information technology-oriented programmes.

Whereas information technology oriented programmes focus primarily on the development of technical artefact and data, the MSc in Computing (Information Systems Process) takes a much broader and multidisciplinary perspective to encompass human-centred and organisational processes, knowledge, and values that also comprise an information system and its environment.



Academic Title:

Hybrid Cloud Computing: Infrastructure as a Service (IaaS) Alongside on Premises Technologies

Technologies: cloud computing, Infrastructure as a Service (IaaS)

Project Areas: Cloud Computing

Project Supervisor: Liam Doyle

<https://bit.ly/3K5n5xM>

CloudBlend: The Future is Here

#80 / Poster Board

by Saad Ullah Anjum





Embracing Sustainability

#81 / Poster Board

Academic Title:

Sustainability in Car Manufacturing Industry Using Edge Computing

Technologies: Edge Computing supported devices

Project Areas: Automotive and Automation, Computer Networks, Information Systems and Modelling, Internet of Things

Project Supervisor: Sinead O'Neill

<https://bit.ly/3UZwAou>

by Chandan Bannihatti Gururaja



Edge Computing Solution for Smart City

#82 / Poster Board

Academic Title:

Implementing Edge Computing in IoT-based Smart Cities

Technologies: Edge Computing, Cloud Computing, IOT, Internet

Project Areas: Cloud Computing, Computer Networks, Internet of Things

Project Supervisor: Liam Doyle

<https://online.fliphtml5.com/ppcnb/blct/index.html>

by Anus Farid



How Scrum Product Owners Drive Success

#83 / Poster Board

Academic Title:

Studying the Role of the Scrum Product Owner in Different Development Companies

Technologies: Agile Scrum

Project Areas: Work Based Project

Project Supervisor: Anita Kealy

<https://github.com/bryan1511/Product-Owner-Bryan-Dias>

by Bryan Joseph Dias





A Survey to Find the Acceptance

#84 / Poster Board

Academic Title:

A Survey: Acceptance of Spanning Tree Protocol and ERPS in IT Infrastructure

Technologies: Survey, Spanning Tree Protocol, Ethernet Ring Protection Switching

Project Areas: Computer Networks, Computer Security

Project Supervisor: Anita Kealy

<https://github.com/sushindms/student.git>

by Sushind Mandakathinkal Suresh



Scaling Agile Methods

#85 / Poster Board

Academic Title:

Scaling Agile Methods: Strategies and Challenges in Large Software Development Organisations

Technologies: Survey tool

Project Areas: Information Systems and Modelling

Project Supervisor: Sonya Hogan

<https://github.com/velvetkaren/KarenOgiugo>

by Karen Ogiugo



Quality Processes into their SDLC

#86 / Poster Board

Academic Title:

To Investigate How Indian IT Companies Incorporate Quality Processes into their SDLC

Technologies: Google Forms, Survey

Project Areas: CI/CD & Testing, Work Based Project

Project Supervisor: Fiona Lynch

<https://bit.ly/4dLGC43>

by Nancy Raju





Beyond Robo-bankers: AI Takes Over

#87 / Poster Board

Academic Title:

The Impact of AI on Digital Banking

Technologies: Artificial Intelligence**Project Areas:** Automotive and Automation**Project Supervisor:** Brenda O'Neill<https://malikhashimraza.blogspot.com/2024/02/the-impact-of-ai-on-digital-banking.html>**by Malik Hashim Raza**

Process Orchestration in IoT Ecosystem

#88 / Poster Board

Academic Title:

IoT Streamline: Orchestrating Efficiency for Scalable IoT Systems

Technologies: Survey**Project Areas:** Internet of Things**Project Supervisor:** Liam Doyle<https://github.com/Aleenasanthosh998/IoT.git>**by Aleena Santhosh**

Blockchain in SCM of E-Waste

#89 / Poster Board

Academic Title:

Blockchain in E-waste Supply Chain Management-considering European Union WEEE Regulations

Technologies: Blockchain Technology**Project Areas:** Database and Analytics, Information Systems and Modelling**Project Supervisor:** Sonya Hogan<https://sowmith7700.github.io/sowmithsimmasettydissertation/>**by Sowmith Simmasetty**



3D Printing & CNC: The Future of

Academic Title:

Quality Improvement of Customized Vehicle Fabrication Using 3D Printers and CNC Machines

Technologies: 3d Printer, Quality Management, CNC

Project Areas: Artificial Intelligence, Automotive and Automation

Project Supervisor: Sinead O'Neill

<https://github.com/wahab137966/Dissertation>

#90 / Poster Board

by Abdul Wahab



Cloud Storage in Small Healthcare Clinic

Academic Title:

Assessing the Determinants of Cloud Storage Adoption for Data Management in Chinese Small Clinics

Technologies: Secondary Data Analysis approach

Project Areas: Cloud Computing, Software Development: (Front End)

Project Supervisor: Richie Lyng

<https://github.com/Ash10198/cloud-storage-adoption-small-healthcare-clinics>

#91 / Poster Board

by Zijian Wang



Safeguarding Supply Chains Cybersecurity

Academic Title:

Cyber-security in Smart Logistics Network

Technologies: Electrical Technology, Computer, The Internet of Things (IoT), Web design

Project Areas: Artificial Intelligence, Database and Analytics, Internet of Things, Work Based Project

Project Supervisor: Liam Doyle

<https://tamunoiboromawhyte.blogspot.com/2024/02/project-showcase-part-1.html?m=1>

#92 / Poster Board

by Tamunoiboroma Abiye Whyte



Projects by Subject Area

Animation

Jessica Chitas

Underwater - Original Song and Music Video with 2D Animation #41 / TL250 16

Jack Donohoe

3D Turn-based Game with Elemental Combat System #9 / TL252 6

Isadora Fitzgerald

Interactive Art Generator Using a Digital Weighing Scale API #60 / TL238 38

Renato Goedert

Interactive Timeline-using 3D Elements to Create an Interactive Timeline #61 / TL238 38

Lauryn Gore

An Animated Short Story Using 3D and 2D #43 / TL250 17

Mia Gough

2D-animated Lyric Video with Artist Interview #44 / TL250 17

Anthony O Keefe

A 2D, Roguelike, RPG Unity Game Utilizing Advanced AI, Dynamic Difficulty and Procedural Generation #26 / TL228 11

Darren Sills

First-person Retro-inspired Dungeon Crawling RPG #29 / TL228 12

Artificial Intelligence

Divya Maria Appachan

A Comparative Study on the Provisioning Time of Terraform and Ansible in Infrastructure as Code #66 / Poster Board 47

Rebecca Finnegan

Investigating Ethical AI – Capabilities & Implications in the Cybersecurity Space #14 / TL251 7

Mahfous Karimu

Experimentation with Transkribus, Handwritten Text and AI Training #39 / TL225 21

Yangqing Li

Neural Network Based Image Style Transformation Platform Not presenting 28

Haopeng Liang

An Agricultural Online Community Platform with Target Detection-based Plant Disease Detection Not presenting 29

Eugenio Manlapaz

Neo ChatBot Creator Web App Not presenting 40

Pratik Ealumalai Mudliyar

AI in Autonomous Vehicle #78 / Poster Board 50

Laura Norbury

To Investigate the Current State of Art of LLMs for the Purpose of Replacing Dashboards #74 / Poster Board 50

Renu Palappamannil Peter

Integrating Artificial Intelligence for Optimising Hotel Productivity #79 / Poster Board 50

Emma Roche

Building a Generative AI-powered Code Migration Pipeline for Application Modernisation #75 / Poster Board 51

Darren Sills

First-person Retro-inspired Dungeon Crawling RPG #29 / TL228 12

Wojciech Skrzynski

Computer Vision and Natural Language Processing for Website Creation, Deployment and Hosting Tools Not presenting 43

Abdul Wahab

Quality Improvement of Customized Vehicle Fabrication Using 3D Printers and CNC Machines #90 / Poster Board 56

Tamunoiboroma Abiye Whyte

Cyber-security in Smart Logistics Network #92 / Poster Board 56

Jia Yang

Intelligent Book Sharing and Communicating System That Includes Recommendations and Grouping Not presenting 31

Yiming Yu

Medical Question Answering System Based on Knowledge Graph Not presenting 32

Automotive and Automation**Chandan Bannihatti Gururaja**

Sustainability in Car Manufacturing Industry Using Edge Computing #81 / Poster Board 53

Alexander Berbenitskiy

Comparative Analysis of Automotive Ethernet Security Protocols #3 / TL252 4

Eric Butler

Lane Correction Assistance, an ADAS Concept #5 / TL252 4

Conor Gleeson

ZEVonUDS Protocol Stack Implementation #18 / TL251 9

Dean Lonergan

Applying the Principles of Functional Safety to the Development of an Automotive Software Component #20 / TL251 9

Pratik Ealumalai Mudliyar

AI in Autonomous Vehicle #78 / Poster Board 50

Emma Nolan

ISO 15118 Protocol Stack: Implementing Secure EV Charging for Efficient Vehicle-station Comm with UI #24 / TL228 10

Adam O Brien

USV-Lir Micro: Bit Sensor Pod Abstraction and API #25 / TL228 11

Stephen Power

Implementing Diagnostics in an Automotive System Through SOME/IP Communication Protocol #27 / TL228 11

Malik Hashim Raza

The Impact of AI on Digital Banking #87 / Poster Board 55

Wojciech Skrzynski

Computer Vision and Natural Language Processing for Website Creation, Deployment and Hosting Tools Not presenting 43

William Vasilev

Logguard: An Intelligent Machine Learning Incident Detection System #31 / TL228 13

Abdul Wahab

Quality Improvement of Customized Vehicle Fabrication Using 3D Printers and CNC Machines #90 / Poster Board 56

CI/CD & Testing**Máté Domonics**

IoT-based Entry Control System Hosted on AWS #8 / TL252 5

Eoin Fennessy

Infrastructure as Code for Kubernetes #59 / TL238 37

Renato Goedert

Interactive Timeline-using 3D Elements to Create an Interactive Timeline #61 / TL238 38

Matthew Hornby

Automated Document Regression Testing Tool Not presenting 39

Ashika Hussain

Monolithic in the Microservices Era: A Comprehensive Analysis of Architectural Choices #70 / Poster Board 48

Ruida Jiang

TruckTrack: Fleet Tracking & Management **Not presenting** 28

Nancy Raju

To Investigate How Indian IT Companies Incorporate Quality Processes into their SDLC **#86 / Poster Board** 54

Emma Roche

Building a Generative AI-powered Code Migration Pipeline for Application Modernisation **#75 / Poster Board** 51

Cloud Computing**Jack Aherne**

Referendum As-a-service for Inclusive Voting Through AWS Serverless Architecture **Not presenting** 3

Kedaranath Ambekar

Faceguard: Revolutionizing Attendance with Cutting-edge Face Recognition Technology **#1 / TL252** 3

Jason Anca

Content Distribution Infrastructure for Education Environments **#2 / TL252** 3

Saad Ullah Anjum

Hybrid Cloud Computing: Infrastructure as a Service (IaaS) Alongside on Premises Technologies **#80 / Poster Board** 52

Hasan Berk

EduHost - A Student Website Hosting Platform Web Application Powered by React and AWS **#4 / TL252** 4

Dean Crowley

A React, Cloud Based, Web Application for the 'Digital Memorials' Toolkit Service **#7 / TL252** 5

Máté Domonics

IoT-based Entry Control System Hosted on AWS **#8 / TL252** 5

Jack Duggan

Automated Server Provisioning and Configuration Using Infrastructure as Code **#10 / TL252** 6

Uchechukwu Henry Ezeigwe

Cloud Navigation: Challenges, Components, Strategies for Novices & Startups #69 / Poster Board 48

Anus Farid

Implementing Edge Computing in IoT-based Smart Cities #82 / Poster Board 53

Dylan Fennelly

Cloud-based Virtual Attraction Queuing System with Accompanying Android App #13 / TL251 7

Eoin Fennesy

Infrastructure as Code for Kubernetes #59 / TL238 37

Ilija Gacov

Event Ticket Distribution Website Hosted on AWS #15 / TL251 8

Ashika Hussain

Monolithic in the Microservices Era: A Comprehensive Analysis of Architectural Choices #70 / Poster Board 48

Dominik Martynski

IoT Application for Recording GPS Data #21 / TL251 10

Fionn Moran

A Web App Used to Filter a User's Social Media Content and Fitness Lifestyle #54 / TL235 25

Conor O'Malley

An Operator That Enables Dynamic Scaling of an Application on OpenShift/Kubernetes #62 / TL238 42

Grzegorz Piotrowski

Digital Twin Application for Buildings Monitoring and Asset Management #63 / TL238 42

Zijian Wang

Assessing the Determinants of Cloud Storage Adoption for Data Management in Chinese Small Clinics #91 / Poster Board 56

Computer Forensics

Marko Glavic

Voice Authentication System Using Voice Analysis for Security #17 / TL251 8

Computer Networks

Chandan Bannihatti Gururaja

Sustainability in Car Manufacturing Industry Using Edge Computing #81 / Poster Board 53

Ian Barnes

A Web-based Software Module to Combat Malvertising and Malicious URLs #33 / TL225 14

Andrew Baxter

Steganography Detection Plugin for Autopsy #34 / TL225 15

Alexander Berbenitskiy

Comparative Analysis of Automotive Ethernet Security Protocols #3 / TL252 4

Anus Farid

Implementing Edge Computing in IoT-based Smart Cities #82 / Poster Board 53

Cormac Farrell

Python Based Team Management and Workload Monitoring Tool #12 / TL252 7

Ilija Gacov

Event Ticket Distribution Website Hosted on AWS #15 / TL251 8

Sushind Mandakathinkal Suresh

A Survey: Acceptance of Spanning Tree Protocol and ERPS in IT Infrastructure #84 / Poster Board 54

Tibor Molnar

A Web Application for Managing it Equipment Primarily in Data Center Not presenting 41

Corey Shanahan

Unity Based Multiplayer Video Game in Virtual Reality #28 / TL228 12

William Vasilev

Logguard: An Intelligent Machine Learning Incident Detection System #31 / TL228 13

Computer Security**Ian Barnes**

A Web-based Software Module to Combat Malvertising and Malicious URLs #33 / TL225 14

Alexander Berbenitskiy

Comparative Analysis of Automotive Ethernet Security Protocols #3 / TL252 4

Leon Chapman

2D Platformer Game with Leader Board and Multiplayer Cooperative Play Functionality #38 / TL225 20

Cormac Farrell

Python Based Team Management and Workload Monitoring Tool #12 / TL252 7

Rebecca Finnegan

Investigating Ethical AI – Capabilities & Implications in the Cybersecurity Space #14 / TL251 7

Killian Halpin

System Attack Landscape #35 / TL225 15

Farhaan Kaleem

Securing Password Storage Using Hybrid Approach of Hashing and Encryption #71 / Poster Board 49

Sushind Mandakathinkal Suresh

A Survey: Acceptance of Spanning Tree Protocol and ERPS in IT Infrastructure #84 / Poster Board 54

Tibor Molnar

A Web Application for Managing it Equipment Primarily in Data Center Not presenting 41

Georgina Walsh

How Regulated Should Data Collection Be and How May it Develop in the Future #32 / TL228 13

Database and Analytics**Andrew Baxter**

Steganography Detection Plugin for Autopsy #34 / TL225 15

Nazar Biletskyy

Assessing the Impact of Data Masking Techniques on Healthcare Database Systems Performance #37 / TL225 20

Jiahan Chen

Spring Boot Powered Goods Supply Platform Management System Not presenting 26

Daniel Coffey

GrubShare: An Application to Share Recipes and Meal Ideas Not presenting 36

Jamie Conlon

A Fitness Web Application Integrating Google Fitness Store API for Personalized User Insights #48 / TL235 23

Darragh Conneely

BIM File Console: React Platform Console to View and Interact with Files in a BIM Model Not presenting 36

William Crowe

Encryption Messaging Application #49 / TL235 23

Dean Crowley

A React, Cloud Based, Web Application for the 'Digital Memorials' Toolkit Service #7 / TL252 5

Máté Domonics

IoT-based Entry Control System Hosted on AWS #8 / TL252 5

Renato Goedert

Interactive Timeline-using 3D Elements to Create an Interactive Timeline #61 / TL238 38

Ashika Hussain

Monolithic in the Microservices Era: A Comprehensive Analysis of Architectural Choices #70 / Poster Board 48

Michael Kelly

A Learning Analytics Information Model and Visualisation Framework for Tutors #72 / Poster Board 49

Xiang Li

Player Data Analysis Management System Not presenting 28

Yangqing Li

Neural Network Based Image Style Transformation Platform Not presenting 28

Haopeng Liang

An Agricultural Online Community Platform with Target Detection-based Plant Disease Detection Not presenting 29

Dominik Martynski

IoT Application for Recording GPS Data #21 / TL251 10

Tibor Molnar

A Web Application for Managing it Equipment Primarily in Data Center Not presenting 41

Pratik Ealumalai Mudliyar

AI in Autonomous Vehicle #78 / Poster Board 50

Cillian Murphy

Full Stack Development of a Web Application Using Angular, AWS and DynamoDB #23 / TL228 10

Emma Nolan

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