



**SE
TU**

Ollscoil
Teicneolaíochta
an Oirdheiscirt

South East
Technological
University

SETU WATERFORD

COMPUTING EXPO '26

LIST OF PROJECTS

SPONSORED BY



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COMPUTING EXPO '26

Section 1

UNDERGRADUATE PROGRAMMES

BSc (HONS)

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Logly

#1 / TL2.49

Academic Title:

AI-Powered Batch Failure Analysis and Reporting System

Technologies: GitHub, Docker, Kubernetes, AWS, FastAPI, React, Spinnaker, Jenkins, Grafana, Hashicorp Vault

Project Areas: AI/ML Development, Cloud Computing, Database and Analytics, Information Systems and Modelling, Work Based Project, Software Development: (Back End / Front End)

Project Supervisors: Patrick McInerney, Dr Anita Kealy

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

by Davin Barron



Coach A.I.

#2 / TL2.52

Academic Title:

Coach A.I - A.I. Powered Plyometric Workouts

Technologies: python, fastapi, react, postgres

Project Areas: AI/ML Development

Project Supervisor: Dr Peter Carew

<https://github.com/FinnBennett02/FinalYearProject.git>

by Finn Bennett



Fools Hand TD

#3 / TL2.28

Academic Title:

Fools Hand TD

Technologies: Unity, Blender, Vscode, C#, Canva

Project Areas: Game Development

Project Supervisor: Dr Denis Flynn

<https://github.com/Jessica-browne/Fyp-Tower-Defence-Game>

by Jessica Browne





WANDER

#4 / TL2.52

Academic Title:

A Gamified Mindfulness Application Using Real-Time Eye Tracking and Gaze-Based Interaction in Unity

by Jeremiah Casey

Technologies: Unity, C#, Android, BlazeFace, Unity Sentis, GitHub, Trello

Project Areas: Game Development, Media Development and Production, Personal Independent Project, Software Development: (Mobile Native)

Project Supervisor: Brendan Lyng

<https://20101456.github.io/wander-landing-page/>


The Four Treasures

#5 / TL2.49

Academic Title:

A Procedurally Generated 2D Unity Roguelite Game with Dynamic Difficulty and Adaptive AI

by Emma Clarke

Technologies: Unity, C#, Github, Visual Studio Code, GIMP, Audacity, Trello

Project Areas: Animation, Game Development, Software Development: (Back End / Front End)

Project Supervisor: Brendan Lyng

<https://emmac1804.github.io/The-Four-Treasures-LandingPage/>


Echo Orb

#6 / TL2.49

Academic Title:

Puzzle-Adventure Unity 2D Game with Level Editor

by Sinéad Cleary

Technologies: Unity, C#, Pixilart, Audacity

Project Areas: Game Development

Project Supervisor: Brendan Lyng

<https://sineadcleary.github.io/FYPLandingPage/>




Git Agents

#7 / TL2.51

Academic Title:

AI-Powered Multi-Agent System for Code Repository Management

Technologies: OctokitJS, Typescript, NodeJS, YAML, JavaScript, GitHub API, Claude SDK, OpenAI SDK, Bash

Project Areas: AI/ML Development, Cloud Computing, Open Source, Software Development: (Back End)

Project Supervisor: Malik Faizan

<https://gitagents.super.site/>

by **Tommy Condon**



Lineage Virtual Wargaming

#8 / TL2.49

Academic Title:

A Unity-Based Turn Resolution System for Discord Wargaming Communities in Video Game Format

Technologies: Unity, C#, Photon Fusion, Git, JSON, Aseprite

Project Areas: Game Development, Personal Independent Project, Software Development: (Core)

Project Supervisor: Michael McMahon

<https://adam-costigan-dooley.github.io/VirtualWargame/>

by **Adam Costigan Dooley**



ScamSnap

#9 / TL2.28

Academic Title:

Mobile Scam Detection Using Machine Learning

Technologies: Kotlin, Android Studio, Python, scikit-learn, ML Kit, Room, OkHttp, VirusTotal API

Project Areas: Computer Security

Project Supervisor: Richie Lyng

<https://github.com/Calc6/Scam-Detection-App>

by **Calum Cullen**





Academic Title:

ML-Powered Network Intrusion Detection

Technologies: Python, Flask, Scapy, Raspberry Pi, Git, AWS, scikit-learn

Project Areas: AI/ML Development, Computer Networks, Computer Security

Project Supervisor: Kurt Pumares

<https://liamdoocey.github.io/ml-nids/>

PiSentry

#10 / TL2.51

by Liam Doocey



Academic Title:

AI-Driven Log Analysis Tool

Technologies: FastAPI, Streamlit, SQLite, LogBERT, Qwen LLM, Hugging Face, Python

Project Areas: Computer Networks, Database and Analytics

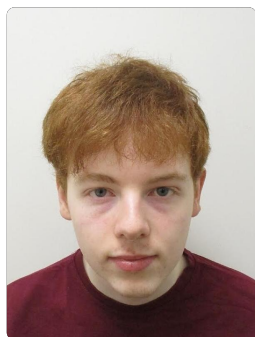
Project Supervisor: Dr John Sheppard

<https://github.com/FalkowskiDom/FYP>

AI-Driven Log Analysis Tool

#11 / TL2.25

by Dominik Falkowski



Academic Title:

Procedurally Generated 2D Roguelite Using Kubernetes for Online Multiplayer with Complex Enemy AI

Technologies: Unity, C#, Visual Studio, Agones, Kubernetes, Mirror, Trello, GIMP, GitHub, ArgoCD, AWS

Project Areas: Cloud Computing, Computer Networks, Game Development

Project Supervisor: Brendan Lyng

<https://paul123111.github.io/>

Planet Hunter

#12 / TL2.51

by Paul Fitzgerald





QueryOps AI

#13 / TL2.35

Academic Title:

Agentic AI for Natural Language Querying & Insights from Time Series Monitoring Data

Technologies: AWS Bedrock, Terraform, Lambda, DynamoDB, API Gateway, Cognito, React, PostgreSQL, Agentic AI

Project Areas: AI/ML Development, CI/CD & Testing, Cloud Computing, Database and Analytics, Software Development: (Back End / Front End)

Project Supervisor: Dr Frank Walsh

<https://d3212o90xjuosc.cloudfront.net/>

by Jeff Halley



Automated Malware Analysis Pipeline

#14 / TL2.25

Academic Title:

An Event Driven Azure Cloud Architecture for Automated Static Malware Triage

Technologies: Azure Blob, Event Grid, Storage Queues, Bicep IaC, YARA, PowerShell, FlareVM

Project Areas: Automotive and Automation, CI/CD & Testing, Cloud Computing, Computer Security, DevOps, Open Source

Project Supervisor: Malik Faizan

<https://github.com/grahamheeney2-spec/AzureAutomatedMalwareAnalysis>

by Graham Heeney



PARS-Prediction and Response System

#15 / TL2.52

Academic Title:

Real Time Trajectory Prediction and Response for Quadruped Robots

Technologies: Python, Shell, OnShape, Utimaker-Cura, YOLO v8s, WebRTC, Hailo, Raspbian, Github

Project Areas: AI/ML Development, Digital Graphic Design, Internet of Things, Personal Independent Project, Open Source, Software Development: (Core)

Project Supervisor: Jason Berry

<https://t25623.github.io/>

by Igor Kapusniak





Academic Title:

2D RPG with Turn Based Combat

Technologies: Unity, JetBrains Rider, Github, Aseprite, Trello

Project Areas: Game Development

Project Supervisor: Brendan Lyng

<https://hillyleopard133.github.io/Landing-Page/>

The Mist

#16 / TL2.28

by Brona Keevers-Roux



Academic Title:

Real-Time Detection of AI-Generated Speech in WhatsApp Voice Messages

Technologies: Python, PyTorch, HuggingFace Transformers, FastAPI, Node.js, AWS SageMaker, AWS EC2, WhatsApp

Project Areas: AI/ML Development, Cloud Computing, Computer Security, Software Development: (Back End)

Project Supervisor: Rob O'Connor

<https://chriskelleher1947.github.io>

Can You Trust That Voice?

#17 / TL2.35

by Christopher Kelleher



Academic Title:

Echoes of the Labyrinth (An In-depth Look at Procedurally Generated 3D Dungeons)

Technologies: Unity Engine, Blender, Audacity, GIMP

Project Areas: Game Development

Project Supervisor: Dr Denis Flynn

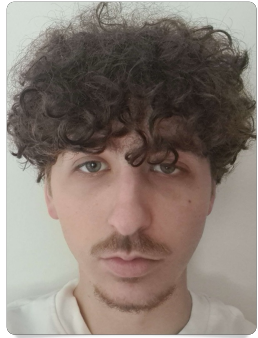
<https://github.com/AdamKenny098/Final-Year-Project>

Echoes of the Labyrinth

#18 / TL2.35

by Adam Kenny





Academic Title:

Sustainable Kubernetes Extension Stack

Technologies: Golang, Kubernetes, Docker, Kepler, Kubebuilder, Prometheus, Grafana, Cobra CLI Framework

Project Areas: Cloud Computing, DevOps, Personal Independent Project, Software Development: (Core)

Project Supervisor: Richard Frisby

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

SUSk8s

#19 / TL2.50

by George Lipceanu



Academic Title:

Real-Time Eye Tracking Horror Game Using Webcam-Based Blink Detection and Head Tracking

Technologies: Unity, MediaPipe, Visual Studio, GitHub, Trello, C#

Project Areas: Game Development

Project Supervisor: Kurt Pumares

<https://samuelylstercummins0.github.io/EyesWideOpen-FYP/>

Eyes Wide Open

#20 / TL2.49

by Samuel Lyster Cummins



Academic Title:

Design and Development of a Facial Interface for AI Agents

Technologies: Python, C++, TypeScript, Raylib, Bun, PyTorch, Kubernetes, Llama Stack, Raspberry Pi

Project Areas: AI/ML Development, Internet of Things, Open Source, Software Development: (Back End / Core)

Project Supervisor: Dr Kieran Murphy

<https://2000krzysztof.github.io/final-year-project/>

Facial Interface for AI Agents

#21 / TL2.50

by Krzysztof Malczuk





RunHub

#22 / TL2.28

Academic Title:

RunHub-Data-Driven Sports Management & Performance Monitoring Platform

Technologies: React, TypeScript, Python, FastAPI, Docker, PostgreSQL and OpenAI

Project Areas: Cloud Computing, Database and Analytics, Software Development: (Web)

Project Supervisor: Richard Lacey

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

by Matteo Mary



MediaRoot

#23 / TL2.35

Academic Title:

A Client-Server Based Media Centre Focused on Ease of Use

Technologies: C++, TypeScript, FFmpeg, React, Next.js, Node.js, SQLite, Visual Studio Code, GitHub

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

Project Supervisor: David Drohan

<https://stephenmcgrath20103121.github.io/fyp-website/>

by Stephen McGrath



Castle Puzzle Mysteries VR

#24 / TL2.28

Academic Title:

Unity-Based Virtual Reality Escape Room Game

Technologies: Unity, Visual Studio, C#, GitHub, Trello, Blender, Meta

Project Areas: Game Development

Project Supervisor: Brendan Lyng

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

by Radvydas Mikalauskas





Athena-KB

#25 / TL2.35

Academic Title:

Development of a Secure, Multi-Source RAG Platform for Offensive Security Knowledge Management

Technologies: Python, RAGflow, XInference, vLLM, MySQL, Elasticsearch, Docker, AWS

Project Areas: AI/ML Development, Cloud Computing, DevOps, Work Based Project, Software Development: (Back End)

Project Supervisor: Dr Bernard Butler

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

by Ava Neary



SETTime

#26 / TL2.25

Academic Title:

Improve the Experience of SETU Students

Technologies: AWS, Python, VSCode, Kotlin, Android Studio

Project Areas: Open Source, Software Development: (Mobile Native)

Project Supervisor: Dr Anita Kealy

<https://www.settime.ie>

by Daniel O'Brien



Coverage Mapper Ireland

#27 / TL2.25

Academic Title:

Irish Broadband Information and Mapping Application

Technologies: React Native, AWS, PostgreSQL, Knex.js, Mapbox GL

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

Project Supervisor: Komal Komal

<https://20098626j.github.io/Coverage-Mapper-Ireland/>

by John O'Mahony





Academic Title:

GoKey

Design and Implementation of a Secure Phone-as-Car-Key Platform for Car Rental Services

Technologies: Android, Python, Vector CANoe, Bluetooth BLE, Firebase, Firestore

Project Areas: Automotive and Automation, Cloud Computing, Computer Networks, Computer Security, Software Development: (Back End / Core / Front End / Mobile Native)

Project Supervisor: Brendan Jackman

<https://shanepower22.github.io/car-key-app/>

#28 / TL2.52

by Shane Power



Academic Title:

Agorex

Escrow System to Combat Ticket Touting

Technologies: Gemini said React Native, Expo, TypeScript, Supabase, PostgreSQL, Stripe API, Google Gemini API

Project Areas: AI/ML Development, Computer Security, Database and Analytics, Software Development: (Back End / Front End / Mobile Hybrid)

Project Supervisor: Rob O'Connor

<https://reifionn.github.io/FYP-Pages/>

#29 / TL2.52

by Fionn Reilly



Academic Title:

Cicada

Behavioural Editing of Large Language Models

Technologies: Python, Pytorch, HuggingFace, TransformerLens, NumPy, scikit-learn, CUDA, Git, matplotlib, Jupyter

Project Areas: AI/ML Development, Automotive and Automation, CI/CD & Testing, Cloud Computing, Database and Analytics, Information Systems and Modelling, Personal Independent Project, Software Development: (Back End / Core / Front End)

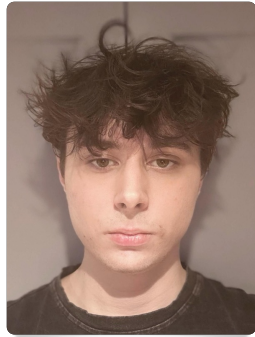
Project Supervisor: Dr Peter Carew

<https://cicada-flame.vercel.app/>

#30 / TL2.51

by Wolfgang Romanowski





SentinelMesh

#31 / TL2.25

Academic Title:

Distributed Intrusion Detection System with Consensus-Based Anomaly Validation

Technologies: Python, Go, scikit-learn, AWS, PostgreSQL

Project Areas: AI/ML Development, Cloud Computing, Computer Networks, Database and Analytics, Software Development: (Core / Front End / Mobile Hybrid)

Project Supervisor: Dr John Sheppard

<https://adamthompson43.github.io/distributed-ids/>

by Adam Thompson



Code-A-Bot

#32 / TL2.28

Academic Title:

Accessible & Cost-Effective Large-Scale Educational Robotics Platform

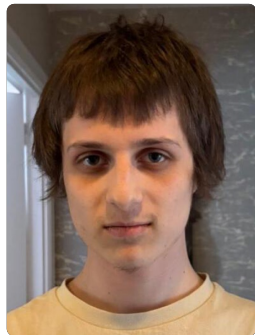
Technologies: Micro:Bit, MakeCode, MicroPython, JavaScript, Teachable Machine, LOFI Robots Suite

Project Areas: Internet of Things

Project Supervisor: Jason Berry

<https://robert-walshh.github.io/code-a-bot/>

by Robert Walsh



Academic Title:

Digital Open-Source (OSINT) Web Application for Information Gathering with Vulnerability Assessment

#33 / TL2.51

Technologies: HTML, CSS, JavaScript, GitHub

Project Areas: Computer Forensics, Computer Security

Project Supervisor: Opeyemi Bamigbade

<https://alainel27.github.io/FYP-LandingSite/>

by Alan Zaharia



BSc (Hons) in Computer Forensics and Security

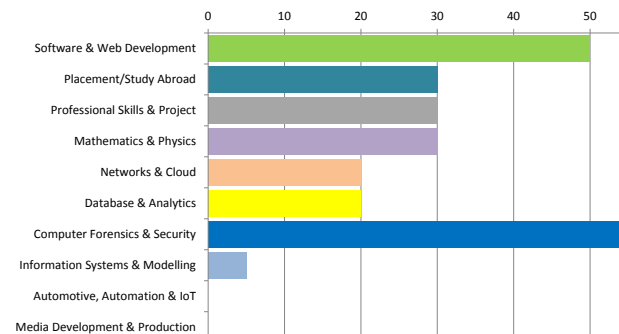
The BSc (Hons) in Computer Forensics & Security is a 4-year ab-initio Level 8 programme.

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.

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





TAC Zero Trust Case Management Platform

#34 / TL2.51

Academic Title:

Design & Implementation of a Zero Trust Identity Centric Secure Case Management Platform

Technologies: Active Directory, ADFS, VLAN Segmentation, Proxmox, pfSense, SIEM, MinIO, Next.js, RBAC, KASM, SQL

Project Areas: Computer Networks, Computer Security, Database and Analytics, Information Systems and Modelling, Open Source, Software Development: (Web)

Project Supervisor: Jerry Horgan

<https://github.com/JacobDicksonOfficial/TAC-Industries-Infra>

by Jabez Dickson



AnalysIT Attachment Scanner

#35 / TL2.25

Academic Title:

Developing an Outlook Extension for Malware Analysis

Technologies: OSINT tools, NodeJS, Typescript, React, Outlook, Webpack, Yeoman, FastAPI, Python, Docker, Figma

Project Areas: Computer Forensics, Personal Independent Project, Software Development: (Back End / Front End)

Project Supervisor: Michael McMahan

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

by Alexandra Dinea



LearnSec

#36 / TL2.50

Academic Title:

System for Deploying Security and Forensic Classroom Labs

Technologies: AWS, AWS Academy, Python, Python Flask, Boto3, Pycharm, Apache Guacamole

Project Areas: Cloud Computing, Computer Security

Project Supervisor: Jimmy McGibney

<https://jholland-22.github.io/websiteFYP/>

by Jorja Holland





GuppyLab

#37 / TL2.25

Academic Title:

System for Automating a Simulated Computer Network for Cybersecurity Training

Technologies: Vagrant, VirtualBox, Bash, Shell, Ansible, GitHub

Project Areas: CI/CD & Testing, Computer Forensics, Computer Networks, Computer Security, DevOps, Open Source

Project Supervisor: Komal Komal

<https://github.com/cienfleur/fyp-project-2026>

by **Sebastien Jazmin**



Fraud Attack & Defence Simulator with AI

#38 / TL2.28

Academic Title:

Adversarial Multi-Agent LLM Simulation with Three-Tier RAG for Adaptive Attack and Defence

Technologies: Python, Flask, Ollama, ChromaDB, AWS EC2, LLaMA, Phi-3, Mistral, RAG, sentence-transformers

Project Areas: AI/ML Development, Computer Forensics, Computer Security, Database and Analytics

Project Supervisor: Jimmy McGibney

https://seanmurphy1479.github.io/fyp_site/

by **Seán Murphy**



VeriLite – Lightweight File Integrity

#39 / TL2.50

Academic Title:

Lightweight File Integrity Verification Using Secure Hashing for Educational and Forensic Contexts

Technologies: Python, hashlib, JSON, CLI, Streamlit, SHA-256, Git, OS modules

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

Project Supervisor: Opeyemi Bamigbade

<https://github.com/theopakieser/FinalYearProject2026>

by **Theo Pakieser**





Academic Title:

Gamified CTF

Technologies: Defold, LUA, PostgreSQL, Supabase, Piskel, Github

Project Areas: Computer Security, Game Development

Project Supervisor: Komal Komal

<https://briannap33.github.io/Cipher-Quest-FYP-/>

CipherQuest

#40 / TL2.52

by **Brianna Power**



Academic Title:

Remote Monitoring Platform

Technologies: FastAPI, MongoDB, Dragonfly, Python, Forgejo/Git, Kubernetes

Project Areas: CI/CD & Testing, Computer Networks, Computer Security, Database and Analytics, DevOps, Information Systems and Modelling, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Richard Lacey

<https://tavlink.net>

Távlink

#41 / TL2.35

by **Zalán Tóth**



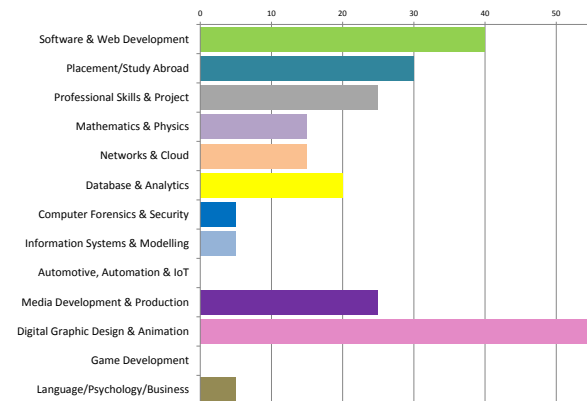
BSc (Hons) in Creative Computing

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.

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





LAYR

#42 / TL2.28

Academic Title:

Interdisciplinary Digital/Physical Product Ecosystem

Technologies: Blender, FreeCad, Adobe Illustrator, Osci-Render, Figma, FDM Printing

Project Areas: Animation, Digital Graphic Design, Internet of Things, Software Development: (Front End / Web)

Project Supervisor: Jacqui Woods O'Brien

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

by Daniel Canning



Promotional Tool-kit for a Musician

#43 / TL2.52

Academic Title:

Promotional Tool-Kit for a Musician with Included User Manual

Technologies: Adobe Suite, Affinity, GIMP, Inkscape, Maya, Blender, Magix Vegas, Kdenlive, Friction

Project Areas: Animation, Digital Graphic Design, Media Development and Production, Personal Independent Project, Open Source

Project Supervisor: Brenda O'Neill

<https://jake-dunphy-fyp-site.carrd.co/>

by Jake Dunphy O'Leary



Neon Sprint

#44 / TL2.52

Academic Title:

Creating a Retro Arcade Aesthetic: Exploring Retro Aesthetics

Technologies: Unity, C#, Blender, Trello, GitHub, PC/Desktop

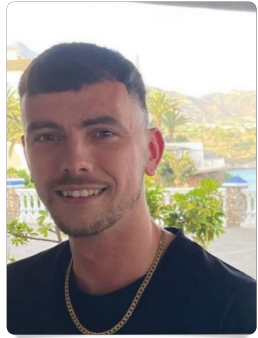
Project Areas: Game Development

Project Supervisor: Patrick McInerney

<https://afitzy17.github.io/fyp-neonsprint/>

by Alan Fitzgerald





FindIT: Campus Lost & Found App

#45 / TL2.25

Academic Title:

Development & Design of a Mobile Lost and Found Platform with React Native, Node.js and MongoDB

Technologies: React Native, Expo, Node.js, Express, MongoDB Atlas, Vercel, Render & GitHub

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

Project Supervisor: Dr Rosanne Birney

<https://github.com/JackKiely1/lost-and-found-webapp>

by Jack Kiely



Focus-Learning to See Again

#46 / TL2.49

Academic Title:

Focus: A Short Film About Loss and Healing, Developed Using DaVinci Resolve

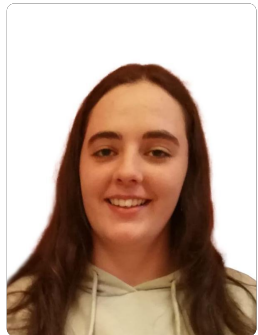
Technologies: DaVinci Resolve, Adobe After Effects, StoryTribe, Autodesk Flow Production Tracking

Project Areas: Media Development and Production

Project Supervisor: Jacqui Woods O'Brien

<https://shabbibz.github.io/ShannonT-FYP.github.io/>

by Shannon Tobin



Stellara

#47 / TL2.52

Academic Title:

The Gamified Personal Development App

Technologies: React, Node.js, Express.js, PostgreSQL, JWT, GitHub, Vercel, Render, Supabase, Adobe Suite

Project Areas: CI/CD & Testing, Digital Graphic Design, Open Source, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Dr Rosanne Birney

<https://fyp-gamified-personal-development-a.vercel.app/>

by Sarah Walsh



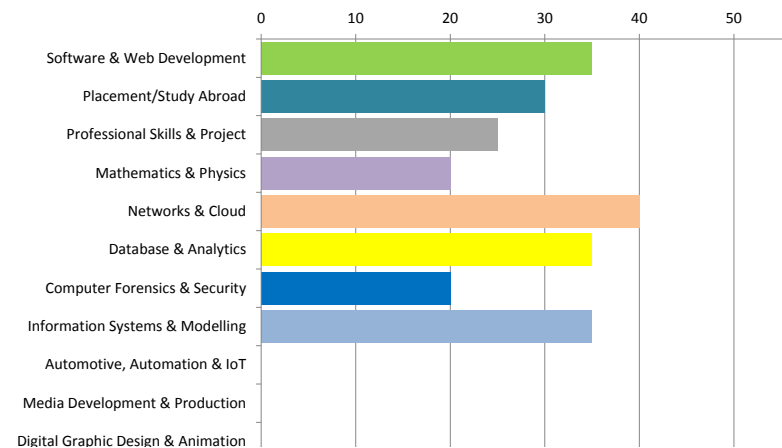
BSc (Hons) in Information Technology Management

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.



Bloom View

#48 / TL2.35

Academic Title:

Web-Based Financial Portfolio Manager and Visualisation System

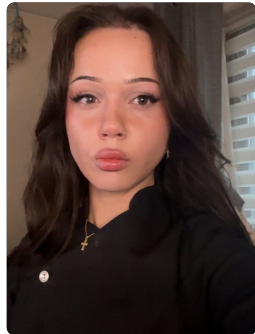
Technologies: React, Node.js, MongoDB Atlas, D3.js, Chakra UI, Yahoo Finance API, JavaScript, Hetzner

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

Project Supervisor: Kavindu Sellaheewa

<https://github.com/AlexKav47/Financial-Portfolio-Tracker/tree/main>

by Alex Kavanagh



Rethinking Cybersecurity Through UX

#49 / TL2.28

Academic Title:

Influencing User Security Behaviour Through UX and Behavioural Design

Technologies: HTML, CSS, JavaScript, Canva, Figma, Google Forms

Project Areas: Computer Security, Digital Graphic Design, Information Systems and Modelling, Software Development: (Front End / Web)

Project Supervisor: Kavindu Sellaheewa

<https://github.com/Katyaova/UX-Password-SignUpVersB.git>

by Catherine (Katya) Puhova



Redesigning Service Flows with AI Agents

#50 / TL2.49

Academic Title:

Agentic AI in Enterprise Information Systems: Redesigning Service Flows for Efficiency

Technologies: Azure Foundry, Entra Id, Azure Search, Microsoft Learning, Canva, Microsoft Learning, Google Work

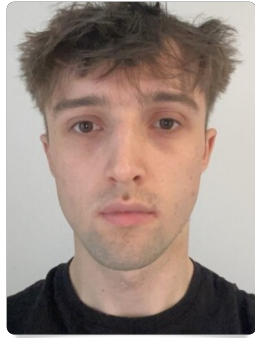
Project Areas: CI/CD & Testing, Cloud Computing, Information Systems and Modelling

Project Supervisor: Richie Lyng

<https://linktr.ee/20103319>

by Elizabeth Solomon





Investigating Role-Based Access Control

#51 / TL2.51

Academic Title:

Investigating Role-Based Access Control: Challenges & Best Practices for it Professionals

by Cathal Stafford

Technologies: Google Forms, Microsoft Excel

Project Areas: Computer Security, Information Systems and Modelling

Project Supervisor: Michael McMahon

<https://github.com/cathalst/FYP-Progress-20102414/blob/main/progress-log.md>



CompliWin: Peace of Mind

#52 / TL2.49

Academic Title:

Windows System Compliance Checker

by Darius Vanagevicius

Technologies: Python, Windows, MariaDB

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

Project Supervisor: Malik Faizan

<https://github.com/Darius20103104/FinalYearProject>



BSc (Hons) in Software Systems Development

This four-year programme empowers students with a comprehensive understanding of software development, web development, mobile app development, and data science alongside artificial intelligence and security fundamentals. Through specialized coursework, students delve into advanced programming languages and techniques essential for software engineering.

They master web development frameworks, crafting dynamic and interactive web applications. Dedicated modules in mobile app development equip students with the skills to create innovative solutions for iOS and Android platforms. Moreover, the curriculum delves into data science methodologies, enabling students to extract insights from complex datasets. Graduates emerge with a versatile skill set, ready to meet the evolving demands of the tech industry.

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	Software Development Tools	Data Structures & Algorithms 1	Flexible Semester Placement / Study Abroad / Voluntary Organisation Project	Mobile App Development 1	DevOps Practice	Mobile App Development 2	
	Website Development 1	Website Development 2	User Experience	Web App Development 1		Web App Development 2	Cloud App Development		
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	
Computer Systems & Security	Computer Systems 1	Computer Systems 2	Computer Networks	Intro to Computer Security			Automated Cloud Services		Artificial Intelligence
								Application Security	
Professional Studies	Communication Skills			Professional Practice				Project 1	Project 2 (10 credit)
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	
Psychology			Introduction to Psychology	Development Psychology		Introduction to Social Psychology	Intro to Cognition & Perception	Management Psychology	
Sports Science			Introduction to Sport and Exercise	Sports and Exercise Biomechanics 1		IOT Standards and Protocols	Sports and Exercise Biomechanics 2	Applied Biomechanics	
Technology Commercialisation			Creative Problem Solving	Integrated Marketing		Technology Entrepreneurship	Project Management	Technology Commercialisation	

Pick any 3 modules in semester 8



VitaGym, Your Smart Fitness Companion

#53 / TL2.25

Academic Title:

Android Application for Smart Gym Management and Exercise Form Correction via Pose Estimation

Technologies: Android Studio, Kotlin, Firebase, Google Maps API, Google ML Kit, MediaPipe, ZXing

Project Areas: AI/ML Development, Cloud Computing, Software Development: (Back End / Front End / Mobile Native / Mobile Hybrid)

Project Supervisor: Kavindu Sellaheewa

<https://github.com/diegowit/VitaGym.git>
by **Diego Pabon Torres**

SiteSight

#54 / TL2.25

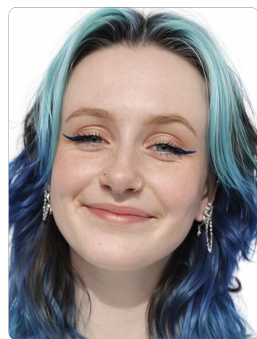
Academic Title:

End-to-End Analytics for a Large Local Manufacturing Site for Increased Data Visibility

Technologies: Power BI, Microsoft SQL Server, Azure DevOps, Git

Project Areas: Database and Analytics, Information Systems and Modelling, Work Based Project

Project Supervisor: Sonya Hogan

<https://site-sight.netlify.app>
by **Pedro Augusto Canteli**

Smart Closet Organiser

#55 / TL2.28

Academic Title:

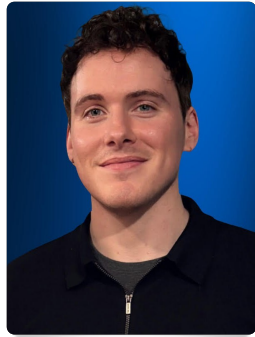
AI-Powered Smart Closet Organiser for Outfit Planning and Wardrobe Management

Technologies: Kotlin, Android Studio, Jetpack Compose, Firebase, OpenWeather API, Google Analytics

Project Areas: AI/ML Development, Database and Analytics, Software Development: (Back End / Front End / Mobile Native)

Project Supervisor: David Drohan

<https://amycomynshaugh03.github.io/Smart-Closet-Organiser/>
by **Amy Comyns Haugh**



Open Analytics

#56 / TL2.35

Academic Title:

AI Driven Financial Analytics Platform

Technologies: Python, FastAPI, PostgreSQL, Streamlit, Hugging Face Transformers, pandas

Project Areas: AI/ML Development, Database and Analytics, Open Source, Software Development: (Back End / Web)

Project Supervisor: Michael McMahon

<https://github.com/PaulsGitH/fyp-open-source-finance-analytics>

by Paul Dolan



Obsidian Routes

#57 / TL2.52

Academic Title:

An Integrated Real-Time Safety and Navigation Framework for Motorcyclists

Technologies: React Native, TypeScript, Supabase (PostgreSQL), Mapbox, OpenWeatherMap API

Project Areas: CI/CD & Testing, Cloud Computing, Software Development: (Back End / Core / Front End / Mobile Native / Mobile Hybrid)

Project Supervisor: Opeyemi Bamigbade

<https://github.com/NamraFatima16/bikerApp>

by Namra Fatima



BaseballPro Manager

#58 / TL2.50

Academic Title:

Baseball Team Management Application with Data Analytics

Technologies: React.js, Node.js, Express.js, MongoDB, Firebase Authentication, Sportradar MLB API, Material-UI, Do

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

Project Supervisor: Kurt Pumares

<https://jordigasco.github.io/FYPwebsite/>

by Jorge Gasco





Stock Market Learning-Trading Simulator

#59 / TL2.51

Academic Title:

A Stock Market Learning and Trading Simulation Platform

Technologies: React, JavaScript, Firebase, Firestore, Alpaca Markets API, Recharts, CSS, HTML

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

Project Supervisor: Deirdre O'Halloran

<https://karinagassanova.github.io/stock-learning-app>

by Karina Gassanova



Capi

#60 / TL2.49

Academic Title:

ai-powered Adaptive Learning Companion

Technologies: FastAPI, PostgreSQL, Pinecone, Groq, ElevenLabs, Swift, SwiftUI, Python, Render, LangFuse, DeepEval

Project Areas: AI/ML Development, Software Development: (Back End / Mobile Native)

Project Supervisor: Diarmuid O'Connor

<https://www.capi.lol/>

by Yong Hsiang Hsieh



PricePulse

#61 / TL2.50

Academic Title:

Comparative & Historical Price Analysis Platform for Supermarket Products Using Web Technologies

Technologies: Python, MongoDB, Node.js, and React

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

Project Supervisor: Dr Rahul Mhapsekar

<https://tiredwork.github.io/final-year-project/>

by Dion Kennedy





Academic Title:

Immersive First-Person Survival Game

Technologies: Unity, C#, Blender, Visual Studio, Audacity, Miro, Github

Project Areas: Game Development

Project Supervisor: Jacqui Woods O'Brien

<https://anyakasia.itch.io/nomo>

NOMO

#62 / TL2.51

by Vitalii Kovalenko



Academic Title:

A Mobile Reproductive Health Application

Technologies: React Native, Express, Node.js, MongoDB, Wikipedia Api

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

Project Supervisor: Sonya Hogan

<https://sylviamartin1.github.io/fyp-project-site/>

Evergreen Mobile

#63 / TL2.52

by Sylvia Martin



Academic Title:

Smart SRS Language Learning App

Technologies: Firebase, React Native, Node, Express, OpenAI, Google Gemini, MongoDB, AWS, GitHub, VS Code

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

Project Supervisor: Deirdre O'Halloran

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

LanLearn

#64 / TL2.52

by Tomás McGrath





FixMyPhone Phone Troubleshooting Guide

#65 / TL2.49

Academic Title:

Design and Development of a Mobile Troubleshooting Assistant and Signal Diagnostic Tool

Technologies: React, Node.js, Express.js, MongoDB, Mongoose, Vite, React Router, Vercel, Render

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

Project Supervisor: Dr Rahul Mhapsekar

<https://mubarak09.github.io/FixMyPhone-Phone-Troubleshooting-Guide/>

by Mubarak Alabi



Tri-Hard

#66 / TL2.25

Academic Title:

Tri-Hard: Triathlon Training Plan Generator

Technologies: React, Node.js, Express, MongoDB, Mongoose, JWT Authentication, REST API

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

Project Supervisor: Brenda O'Neill

<https://github.com/robertodonnell100/tri-hard.git>

by Robert O'Donnell



PassKey Auth

#67 / TL2.35

Academic Title:

Implementing Passwordless Authentication Using FIDO2 and WebAuthn

Technologies: React, TypeScript, Flask, Python, PostgreSQL, Redis, Docker, WebAuthn, FIDO2, python-fido2

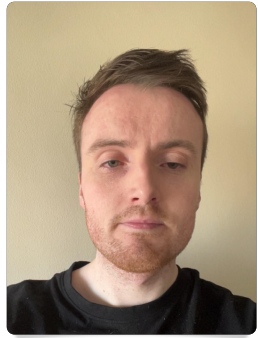
Project Areas: CI/CD & Testing, Computer Security, Database and Analytics, Software Development: (Back End / Front End / Web)

Project Supervisor: Komal Shoukat

<https://www.passwordlessauth.net/>

by Stephen Power





Fantasy Football Waterford

#68 / TL2.28

Academic Title:

A Mobile Fantasy Football Management System

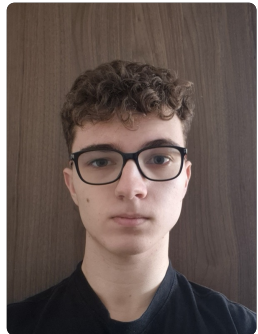
Technologies: Mongo DB, Android Studio, Node js

Project Areas: Computer Security, Database and Analytics, Software Development: (Back End / Front End / Mobile Native / Mobile Hybrid)

Project Supervisor: Jacqui Woods O'Brien

<https://github.com/jonoryan42/fantasy-football-app>

by Jonathon Ryan



NutritionMax

#69 / TL2.49

Academic Title:

AI-Powered Nutrition Tracking

Technologies: React Native, Firebase, Firestore, Gemini API, Cloud functions

Project Areas: AI/ML Development, Cloud Computing, Software Development: (Front End / Mobile Hybrid)

Project Supervisor: Kavindu Sellaheewa

<https://raels24.github.io/nutritionmax-showcase/>

by Rael Santers



All Football: Real-Time Platform

#70 / TL2.50

Academic Title:

Design and Implementation of a Real-Time Football Data Platform

Technologies: React, Spring Boot, MySQL, Redis, Docker, AWS, WebSocket

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

Project Supervisor: Malik Faizan

<https://github.com/musicheng520/All-Football-Backend>

by Sicheng Mu





Sun Life Metaverse

#71 / TL2.35

Academic Title:

An Immersive 3D Platform for Sun Life Waterford, Connecting VR and Web Experiences

Technologies: Unity, Autodesk Maya, React, Cloudbees, JavaScript, C#, Babylon.js, Meta Quest Developer Hub

by Malgorzata Victor

Project Areas: Digital Graphic Design, Game Development, Media Development and Production, Work Based Project, Software Development: (Back End / Core / Front End / Web)

Project Supervisor: Sonya Hogan

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





Ollscoil
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South East
Technological
University

SETU WATERFORD

COMPUTING EXPO '26

Section 2

HIGHER DIPLOMA IN SCIENCE

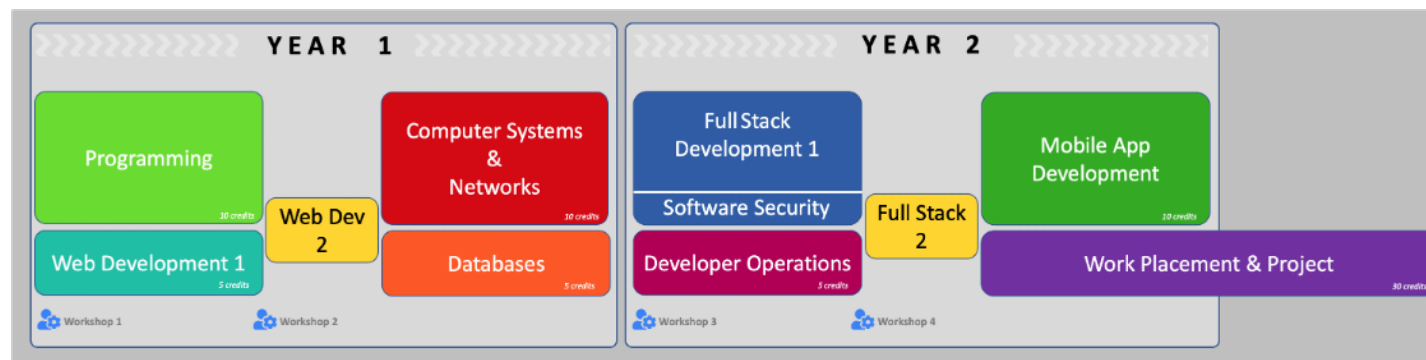
HDip

SPONSORED BY

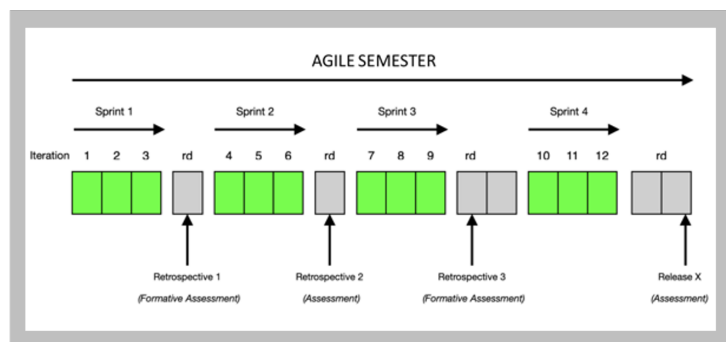
KARGO

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](#).



RAW: Rules as Written

#72 / TL2.38

Academic Title:

Evaluating LLM & RAG Based TTRPG Rule Assistants with a Focus on D&D 5e

Technologies: Python, NotebookLM, Markdown, InstructLab, Hugging Face Transformers, LLMs (Claude, GPT)

Project Areas: AI/ML Development, Open Source

Project Supervisor: Peter Windle

<http://bit.ly/4lZ4LZt>

by **Leanne Ahern**



ScanIQ

#73 / TL2.38

Academic Title:

Scaniq: A Mobile Application for Ingredient Analysis Using Barcode Scanning and Food Data APIs

Technologies: React Native, Expo, TypeScript, OpenFoodFacts API, AsyncStorage, Expo Camera

Project Areas: AI/ML Development, Personal Independent Project, Software Development: (Core / Front End / Mobile Hybrid)

Project Supervisor: Dave Drohan

<https://scaniq-final-project.vercel.app/>

by **Ludmila Bulat**



NeuraLumaDMX

#74 / TL2.38

Academic Title:

AI Driven Translation of Natural Language into DMX Lighting Control

Technologies: Python, PySerial, llama.cpp, GGUF LLMs, DMX512, USB-DMX (Enttec Pro), JSON, Gradio

Project Areas: AI/ML Development, Internet of Things, Personal Independent Project, Software Development: (Core)

Project Supervisor: Peter Windle

<https://bit.ly/neuralumadm>

by **Nigel Byrne**





Academic Title:

APAVS Automated Pipeline and Visualisation System for Tool Load Port Data

Technologies: PowerShell, SQL Server, Power BI

Project Areas: Automotive and Automation, Database and Analytics, Work Based Project

Project Supervisor: Sonya Hogan

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

#75 / Not Presenting

by Vincent Byrne



Academic Title:

CareModel Hub Developing the CareModel Hub Web Application for Implementing the Kidney Failure Risk Equation

Technologies: Node.js, Python, FastAPI, React, MongoDB, Microservices, HL7 FHIR

Project Areas: DevOps, Information Systems and Modelling, Work Based Project, Open Source, Software Development: (Back End / Front End / Web)

Project Supervisor: Dr Anita Kealy

<https://pccork.github.io/caremodelhub-showcase/>

#76 / TL2.38

by Peter Chuk



Academic Title:

GateMate Modular Vehicle Presence Detection System Using BLE, LoRa and MQTT

Technologies: Bluetooth, LoRa, MQTT, Home Assistant, IOT

Project Areas: Internet of Things

Project Supervisor: Mary Fitzgerald

<https://bit.ly/GateMateLab>

#77 / Not Presenting

by Aidan Clancy





Academic Title:

WSL Plus

Management Tool for the Windows Subsystem for Linux

Technologies: go, cobra, flutter, wsl, windows, linux

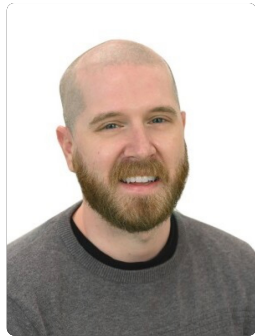
Project Areas: Personal Independent Project, Open Source, Software Development: (Back End / Front End)

Project Supervisor: Mary Fitzgerald

<https://wslp-home.netlify.app/>

#78 / Not Presenting

by Shane Crowley



Academic Title:

EnferVision

LIMS Bulk PRF Data Extraction Process Implemented as Local Web App Using AI Process

Technologies: Node.js, Hapi.js, Handlebars, MongoDB, Mongoose, OpenAI API, Joi, JWT, bcrypt, Bulma CSS, Nodemon

Project Areas: Work Based Project

Project Supervisor: Richard Lacey

<https://enfervisionprojectshowcase.onrender.com>

#79 / Not Presenting

by Daniel Cullen



Academic Title:

Compound

A Simple Workout Tracker

Technologies: JavaScript, Svelte, Node.js, Hapi, MongoDB, Mongoose, Handlebars

Project Areas: Software Development: (Web)

Project Supervisor: Dr Sinead O'Neill

<https://eoingeoghegan.github.io/CompoundFinalProject/>

#80 / Not Presenting

by Eoin Geoghegan





Academic Title:

There's No Place Like Home

#81 / TL2.38

Design and Implementation of a Segmented, Privacy-Centric Homelab Using Open-Source Platforms

Technologies: FreeBSD, OPNsense, Linux, Proxmox VE, Containers, Podman, Networking, Firewalls, VLANs

Project Areas: Computer Networks, DevOps, Information Systems and Modelling, Personal Independent Project, Open Source

Project Supervisor: Mary Fitzgerald

<https://urlr.me/!homelab>

by **Wolfgang Helnwein**



Academic Title:

CoRaw

#82 / Not Presenting

Web App Designed to Help Users Learn and Practice Conversational Irish Using AI and Meta-prompting

Technologies: React, Hapi, Joi, JWT, Typescript

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

Project Supervisor: Michael McMahan

<https://bit.ly/47h7xDa>

by **Oisín Larkin**



Academic Title:

CB42

#83 / TL2.38

IoT Model of Rally Car Sensor and Telemetry System Displayed on Screen and in the Cloud

Technologies: Python, MQTT, Svelte, Mosquitto, HiveMQ, PahoMQTT

Project Areas: Automotive and Automation, Cloud Computing, Internet of Things, Personal Independent Project

Project Supervisor: Dr Mujahid Tabassum

<https://bit.ly/GarrettsHDipProject>

by **Garret Lenihan**





Rehab Dashboard

#84 / TL2.38

Academic Title:

Poc Investigating Use of Wearables and Sensors in Preventing Falls in Elderly Healthcare

Technologies: Bluetooth sensors, Rasberry Pi, Fitbit with API calls, HAPI, React, Python, IoT Blynk

Project Areas: Cloud Computing, Database and Analytics, Internet of Things, Personal Independent Project, Software Development: (Back End / Front End / Web)

Project Supervisor: Richard Lacey

<https://bit.ly/48hGGaE>
by **Conor Leonard**

Done!

#85 / Not Presenting

Academic Title:

A Gamified Tracker of All Things Done Available on a Web App

Technologies: React, Nodejs, Python, Javascript, Typescript

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

Project Supervisor: Richard Lacey

<https://nilanoemi25.github.io/project-/>
by **Noemi Lovei**

Warble

#86 / Not Presenting

Academic Title:

A System for Multi-Model LLM Evaluation & Optimization

Technologies: React, JavaScript, Python, FastAPI, Node.js, Hugging Face, NLTK, Amazon Web Services

Project Areas: AI/ML Development, Cloud Computing, Work Based Project, Software Development: (Back End / Front End)

Project Supervisor: Mary Fitzgerald

<https://bit.ly/Warble>
by **Rhiannah Maher**



ECADS

#87 / Not Presenting

Academic Title:

Emergency Services Contact & Dispatch System for Offline Incident Management

Technologies: Bash, PowerShell, C#, Windows Forms

Project Areas: Personal Independent Project, Software Development: (Core)

Project Supervisor: Dr Sinead O'Neill

<https://feargalmcloughlin.github.io/ECADS/>

by Fergal McLoughlan



Wynsum Point of Sale

#88 / Not Presenting

Academic Title:

A High-Performance Edge-Native Point of Sale Terminal with Zero Trust Security

Technologies: Python, Django, Django Channels, Daphne/Uvicorn, Redis, PostgreSQL, React, Vite, TypeScript

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

Project Supervisor: Michael McMahon

<https://project.wynsum.ie/>

by Vadym Melnychenko



EVOTE

#89 / Not Presenting

Academic Title:

An Electronic Voting System Implemented as a Full Stack Application Addressing UI for Disabilities

Technologies: Visual Studio Code, Visual Studio, SQL Server Management 22

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

Project Supervisor: Catherine Fitzpatrick

<https://jake-nagle123.github.io/EVoting/project.html>

by Jake Nagle





GuestEase

#90 / Not Presenting

Academic Title:

A Full-stack Web App for Small Hospitality Businesses

Technologies: React, Vite, TypeScript, Material UI, Node.js & Express, Supabase, Cron-job, Stripe, Resend

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

Project Supervisor: Catherine Fitzpatrick

<https://guestease-landing.vercel.app/>

by **Andrea Nardinocchi**



Compliance Questionnaire Assistant

#91 / TL2.38

Academic Title:

AI-Powered Web App Enabling Quick Completion of Security Questionnaires with RAG

Technologies: React, Material UI, TypeScript, AWS CDK/SDK, JavaScript, Express, Bedrock, serverless AWS resources

Project Areas: AI/ML Development, Cloud Computing, Work Based Project, Software Development: (Back End / Front End / Web)

Project Supervisor: Richard Lacey

<https://bit.ly/cqa-setu>

by **David O'Connor**



Terms Long; Didn't Read (tl;dr)

#92 / TL2.38

Academic Title:

A Comparison of Container Image Vulnerability Scanners in a CI/CD Pipeline

Technologies: Python, Ollama, Docker, Github Actions, Kubernetes, ArgoCD

Project Areas: CI/CD & Testing, Personal Independent Project, Open Source

Project Supervisor: Peter Windle

<https://bit.ly/tldr-project>

by **Grainne O'Connor**





Academic Title:

Odin

An Autonomous Cloud Infrastructure Management System

Technologies: AWS, Python, Node.js, Javascript, Handlebars, MongoDB, OpenAI

Project Areas: DevOps, Personal Independent Project, Software Development: (Web)

Project Supervisor: David Drohan

<https://modrisco89.github.io/Odin/>

#93 / TL2.38

by Michael O'Driscoll



Academic Title:

ANDROIDS

Air Navigation Data for Radio Officer Information Display System

Technologies: Nodejs, hapi, mongoDB, Svelte, Leaflet

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

Project Supervisor: David Drohan

<https://powerj24.github.io/hdip24-project/>

#94 / Not Presenting

by Joe Power



Academic Title:

ERR!

Full Stack Web App Expense Mgt. System with ROS API Integration for Enhanced Reporting Requirements

Technologies: SvelteKit, TypeScript, Bulma, Node / Express, JavaScript, MongoDB, .NET, C#, Revenue PIT3 REST API

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

Project Supervisor: Sonya Hogan

https://bit.ly/ERR_Expense_Mgt_System

#95 / TL2.38

by Elaine Rice





Label Automator

#96 / Not Presenting

Academic Title:

3 Approaches to Designing EU Compliant Labels (Scripting, Coding and AI Prompting)

Technologies: Javascript, Python, Pandas, LaTeX, AI

Project Areas: Automotive and Automation, Digital Graphic Design

Project Supervisor: Dr Mujahid Tabassum

<https://bit.ly/LabelAutomator>

by Pedro Royo



Galaxy Morphology Classification Model

#97 / Not Presenting

Academic Title:

Pythorch Galaxy Classification Model

Technologies: Python, PyTorch, Torchvision, Pandas, PIL, Matplotlib

Project Areas: Information Systems and Modelling, Personal Independent Project

Project Supervisor: Dr Mujahid Tabassum

<https://galaxyclassifier.netlify.app/>

by Giovanni Serra



BankBroker

#98 / Not Presenting

Academic Title:

A Hub Where Users Can Connect to Various Banks and Generate Reports Using Transaction Data

Technologies: Plaid, MongoDB, API, Vite, Typescript

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

Project Supervisor: Sonya Hogan

<https://mariansheehy.github.io/bankBroker/>

by Marian Sheehy





DrillTek

#99 / TL2.38

Academic Title:

A Borehole Management Application for Diamond Drilling in the Mining Industry

Technologies: Svelte, Sveltekit, Bulma CSS, Python, Django, Django Rest Framework, PostgreSQL

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

Project Supervisor: David Drohan

<https://joshuasmls0.github.io/DrillTek/>

by **Joshua Smiles**



PlayPal

#100 / Not Presenting

Academic Title:

A Social Platform for Game Tracking and Discovery

Technologies: Flutter, Dart, Firebase, Firestore, Cloud Functions, RAWG API, Steam API, Node.js

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

Project Supervisor: Dr Mujahid Tabassum

<https://kszlufik.github.io/FinalProject/>

by **Kamil Szlufik**



AI: D.O.M.

#101 / TL2.38

Academic Title:

Operationalising MLOps at the Edge-Deploy, Operate, and Monitor AI at the Edge

Technologies: FlightCtl, Edge, MLOps, Golang, Python, Podman, Bootc, Quadlets, Inferencing

Project Areas: AI/ML Development, CI/CD & Testing, Cloud Computing, DevOps, Internet of Things, Work Based Project, Open Source, Software Development: (Back End)

Project Supervisor: Peter Windle

<https://bit.ly/AI-DOM>

by **Shaun Walsh**





AMTCS

#102 / TL2.38

Academic Title:

IoT Project on Automating Measurements Using a Temperature Controller and Spectrometer

by Marina Zubialeovich

Technologies: C++, MFC, Python, Raspberry Pi, TCP/IP, Serial Communication, JSON, COM/ActiveX (equipment SDK)

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

Project Supervisor: Dr Anita Kealy

<https://zumavla.github.io/AMTCS-System>





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COMPUTING EXPO '26

Section 3

MASTERS IN SCIENCE

MSc

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MSc in Computer Science (Enterprise Software Systems)

The aim of the MSc in Computer Science (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:

Terraform vs Ansible: Cloud Automation

A Comparative Study of Terraform and Ansible for Cloud Infrastructure Automation on AWS

#103 / Poster

Technologies: AWS, Terraform, Ansible

Project Areas: Cloud Computing

Project Supervisor: Dr Mujahid Tabassum

<https://github.com/MarSsyy/terraform-vs-ansible-aws>

by Fahamidul Hasan



Academic Title:

AI to Predict Telco Users' Satisfaction

Using AI to Predict Telecom Users' Satisfaction and Preferences from Behavioural and Service Data

#104 / Poster

Technologies: Python, SciKit-Learn, Bokeh, AWS

Project Areas: AI/ML Development, Database and Analytics, Information Systems and Modelling

Project Supervisor: Dr Bernard Butler

<https://github.com/shoumik20115758/AI-to-Predict-Telco-Users-Satisfaction>

by Shoumik Hossain



Academic Title:

AI Enhances Software Engineer Speed

Impact of Agentic AI Assistants on Engineer Velocity in Software Engineering Workflows

#105 / Poster

Technologies: GitHub Copilot, Mixed-Methods Research

Project Areas: AI/ML Development, Work Based Project, Software Development: (Core)

Project Supervisor: Dr Siobhan Drohan

<https://github.com/20017867/engineering-ai-adoption-research.git>

by Calvin Hurley





Academic Title:

Deploying Security and Forensics Classroom Lab Environments to the Cloud

Technologies: Terraform, Packer, Ansible, Amazon Web Services

Project Areas: Cloud Computing, Computer Forensics, Computer Security, DevOps

Project Supervisor: Jimmy McGibney

<https://htkelly.github.io/dle-docs/>

#106 / Poster

by Harry Kelly



Academic Title:

Optimising Blockchain Voting with Zero-Knowledge Rollup Layer 2

Technologies: Blockchain, Ethereum, Solidity, Circom, SnarkJS, Smart Contract

Project Areas: Computer Security, Information Systems and Modelling, Software Development: (Core)

Project Supervisor: Dr Kieran Murphy

<https://hoangphuc552001.github.io/blockchain-voting-zk-rollup-showcase/>

#107 / Poster

by Hoang Phuc Le



Academic Title:

Understanding and Overcoming Demographic Disparities in Gen AI Adoption for Software Testers

Technologies: Qualtrics, SPSS

Project Areas: CI/CD & Testing

Project Supervisor: Mairead Meagher

<https://seamusmccarthy.github.io/msc-gen-ai/>

#108 / Poster

by Seamus McCarthy





Carbon-Aware Scheduling in Kubernetes

#109 / Poster

Academic Title:

Carbon-Aware Kubernetes Batch Scheduling with Historical Grid Carbon-Intensity Data

by **Conor McDonagh Rollo**

Technologies: Python, Kubernetes, Minikube

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

Project Supervisor: Richard Frisby

<https://github.com/Conor-McDonagh-Rollo/Carbon-Aware-Kubernetes>


Data Imputation: Traditional vs DL

#110 / Poster

Academic Title:

Comparative Analysis of Traditional and Deep Learning for Imputation in Wearable Health Datasets

by **Gary McManus**

Technologies: Python, Pandas, NumPy, Sklearn, PyTorch, GRU-D, Autoencoders, WESAD, PAMAP2

Project Areas: AI/ML Development, Database and Analytics

Project Supervisor: Dr Brenda Mullally

<https://github.com/garimac69/msc-imputation>


Can We Make React Code Greener

#111 / Poster

Academic Title:

Evaluating the Efficacy of Green Software Patterns as Applied to React

by **Joshua Miron**

Technologies: React, node.js, Vite, powermetrics, Claude Sonnet 4.5, GitHub, Vercel, Bash, Lighthouse

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

Project Supervisor: Dr Siobhan Drohan

<https://github.com/joshuamiron/green-patterns-vite>




AI Optimised Container Images

#112 / Poster

Academic Title:

Reducing Attack Surface and Ingress Costs: An AI-Powered Framework for Minimal Container Base Image

by **Cathal O'Connor**

Technologies: Ray, Python, AI, Agents, Pydantic Framework, Openshift

Project Areas: AI/ML Development, CI/CD & Testing, Cloud Computing, Computer Security

Project Supervisor: Jerry Horgan

<https://github.com/CathalOConnorRH/MastersThesis>


Bots at the Gate: Do Contributors Stay?

#113 / Poster

Academic Title:

LLM Code-review Bot Adoption: Contributor Retention and Maintainer Behaviour in Open Source

by **Amador Pahim Segundo**

Technologies: Python, SQLite, GitHub REST API, SciPy, Pandas, Matplotlib, VADER, Streamlit, Tekton

Project Areas: AI/ML Development, Database and Analytics, Open Source, Software Development: (Back End / Web)

Project Supervisor: Richard Lacey

<https://github.com/apahim/setu-rp>


“GoRTS”: Smart Test Selection for Golang

#114 / Poster

Academic Title:

Change-Based Regression Test Selection for Golang Applications

by **Pawel Paszki**

Technologies: Golang, AST, Code Coverage, Git, CLI (Cobra), JSON, SHA256, CI/CD

Project Areas: CI/CD & Testing, Open Source, Software Development: (Core)

Project Supervisor: John Rellis

<https://github.com/pawelpaszki/gorts>




Micro-Batch E-Commerce Analytics

#115 / Poster

Academic Title:

Cost-Performance Trade-offs in Free-Tier E-Commerce Analytics

Technologies: Amazon SQS, AWS Lambda, DynamoDB, Amazon S3, Amazon Athena, CloudWatch, Python, boto3, pandas, NumPy

Project Areas: Cloud Computing

Project Supervisor: John Ronnan

<https://github.com/binupeter07/ecommerce-analytics-free-tier.git>

by Binu Peter



AI Code Generation from User Stories

#116 / Poster

Academic Title:

A Comparative Analysis of LLM-Driven Code Generation from User Stories

Technologies: LLM, AI, Python, C#, Spec-Driven Development

Project Areas: AI/ML Development, Software Development: (Back End)

Project Supervisor: Dr Mujahid Tabassum

<https://github.com/ydnp20115518/UserStoriesToCode.git>

by Yadanar Phyo



LLMs for Safer Passwords

#117 / Poster

Academic Title:

Evaluating the Impact of Personal Information on Password Strength Using Large Language Models

Technologies: Large Language Models, Machine Learning

Project Areas: AI/ML Development, Computer Security

Project Supervisor: Dr John Sheppard

<https://github.com/krishna-rajakumar/PII-Passwords>

by Krishna Rajakumar





Cloud AI Speed & Load Performance Guide

#118 / Poster

Academic Title:

An Evaluation of Latency and Concurrency Effects on Cloud-to-Client AI Inference Performance

Technologies: Python, AWS, Wireshark

Project Areas: Cloud Computing, Information Systems and Modelling

Project Supervisor: Dr Denis Flynn

<https://github.com/sultana-sadia/Cloud-AI-Speed-Load-Performance-Guide>

by Sadia Sultana



Multi-Angle Ultrasound Reconstruction

#119 / Poster

Academic Title:

deepus-reconseg++: Joint Deformable Registration and Transformer-Based Ultrasound Reconstruction

Technologies: Python, PyTorch, CNN, Vision Transformers, OpenCV, NumPy

Project Areas: AI/ML Development

Project Supervisor: Dr Lizy Abraham

<https://github.com/kazimdalwakil/Msc-Thesis-SETU-.git>

by Kazi Md Al Wakil



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.



Blockchain Academic Certificate Auth Sys

#120 / Poster

Academic Title:

Enhancing Academic Certificate Authentication Using a Blockchain Approach

by **Kanchana Chelappurathu Shanmugum**

Technologies: Python, Flask, MySQL, SHA-256, FTP (DriveHQ), ZIP File Format, HTML/CSS, JavaScript, Bootstrap

Project Areas: Cloud Computing, Computer Networks, Computer Security, Database and Analytics, Information Systems and Modelling, Personal Independent Project, Open Source, Software Development: (Back End / Front End / Web)

Project Supervisor: Dr Mujahid Tabassum



<https://github.com/kanchana9827-design/Enhancing-Academic-Certificate-Authentication-Using-a-Blockchain-Approach>



Academic Title:

Digitalisation Adoption of Small and Medium-sized Enterprises

#121 / Poster

Technologies: Statistical Package for the Social Sciences(SPSS)

Project Supervisor: Fiona Lynch

<https://github.com/leelasasikrishnadandams-data/my-adoption>

by **Leela Sasi Krishna Danda**



Academic Title:

A Comparative Study of Front-End Application Development Using Vanilla Javascript and Vue.js 3

#122 / Poster

Technologies: Vanilla JavaScript (ECMA Script 2024), Vue.js 3, Vite

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

Project Supervisor: Richie Lyng

<https://github.com/albertef/movie-app-research>

by **Albert Francis Emmatty**





AI vs Manual Web Design

#123 / Poster

Academic Title:

Investigating Effectiveness of AI-Assisted Responsive Web Design on Accessibility & User Engagement

Technologies: HTML, CSS, JavaScript, AI tools, Responsive Web Design, UX testing

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

Project Supervisor: Richie Lyng

<https://github.com/PavanG9391/ai-web-accessibility-study>

by Satya Krishna Pavan Gundabattula



Online Data Use Behind the Screens

#124 / Poster

Academic Title:

The Social Awareness of Data Practices of the Individual Using Online Platforms

Technologies: Google Forms, Excel, NVivo

Project Areas: Database and Analytics, Information Systems and Modelling, Personal Independent Project

Project Supervisor: Brenda O'Neill

<https://linktr.ee/emilymastersdissertation>

by Emily Halley



Sustainable Software Arch Analysis

#125 / Poster

Academic Title:

Operational Energy Consumption in Monolithic and Micro Services Architectures

Technologies: Microservices, Monolithic Architecture, Cloud Computing, Kubernetes, Energy Monitoring tools

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

Project Supervisor: Liam Doyle

<https://github.com/prasad564/Energy-Efficiency-Monolith-vs-Microservices>

by Laxmi Vara Prasad Kanisetty





Better Agile, Better Delivery

#126 / Poster

Academic Title:

Collaborative Modelling Techniques for Enhancing Requirements Elicitation in Agile Process

Technologies: Google Forms, SPSS, Python, Miro, Jira, Confluence, Zoom, Microsoft Teams

by **Roshan Khamkar**

Project Areas: Information Systems and Modelling, Software Development: (Back End / Core / Front End / Mobile Native / Mobile Hybrid / Web)

Project Supervisor: Cian Murphy

<https://github.com/Ross17/Collaborative-Modelling-Techniques-for-Enhancing-Requirements-Elicitation-in-Agile-Process>


Closing the Digital Gap

#127 / Poster

Academic Title:

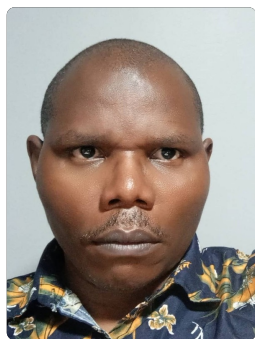
Bridging the Digital Divide

Technologies: Word, Excel, SPSS, Google Forms, Teams (manual thematic analysis)

by **Patrice Lawlor**

Project Areas: Information Systems and Modelling

Project Supervisor: Cian Murphy

<https://not-applicable.com>


Improving Accessibility to Hansards

#128 / Poster

Academic Title:

Improving Accessibility to Malawi Parliament Hansard with AI Summaries and Topic Tagging

Technologies: Python, NLP, Transformers, RAG, FastAPI, PostgreSQL, React, SPSS, NVivo

by **Geoffrey Masamba**

Project Areas: AI/ML Development, Cloud Computing, Database and Analytics, Information Systems and Modelling, Software Development: (Front End / Web)

Project Supervisor: Richie Lyng

<https://github.com/20115492/hansard-ai-access>




LOS-AI-Project

#129 / Poster

Academic Title:

AI Analytics for Hospital Length of Stay Prediction

Technologies: Python, AI, Machine Learning, Data Analytics, VS Code, Jupyter Notebook, Scikit-learn, Pandas

Project Areas: Animation, Cloud Computing, Database and Analytics, Information Systems and Modelling, Personal Independent Project

Project Supervisor: Lyam Doyle

<https://github.com/ramaseshu-Data/LOS-AI-Project>
by **Vijaya Rama Seshu Meruva**

PathFinder AI: Smart Career Guide

#130 / Poster

Academic Title:

AI-Human Career Guidance for Gaza-Evacuated Students in Ireland

Technologies: Figma, OpenAI API, UX Design, Human-Centered Design

Project Areas: CI/CD & Testing, Database and Analytics, Information Systems and Modelling, Personal Independent Project

Project Supervisor: Komal Komal

<https://www.figma.com/design/BBjT04nhPtPnzkiX13tN5r/PathAI-Finder?node-id=0-1&t=kFEhKWZAJXLTVPy-1>
by **Hanan N I Alhajahmed**

Influence of PROJ. GOV. & DX PROJ

#131 / Poster

Academic Title:

Project Governance and Digital Transformation Success in Irish it Org

Technologies: GitHub repository

Project Supervisor: Liam Doyle

<https://github.com/Nii-Rodney/MSc-Dissertation.git>
by **Rodney Kotey Nikoi**



Evaluating Development Time in Low-Code

#132 / Poster

Academic Title:

A SAFE-Based Comparative Analysis of Mendix and OutSystems

Technologies: Low Code Development Platforms

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

Project Supervisor: Fiona Lynch

<https://notfinalisedyet.com>

by Wickramage Ravan Sanjaka Perera



Designing Intelligent Business Processes

#133 / Poster

Academic Title:

Designing Intelligent Business Processes Using Robotic Process Automation (rpa)

Technologies: Python, Automation, Data analytics, pipeline optimisation

Project Areas: AI/ML Development, Software Development: (Core / Web)

Project Supervisor: Liam Doyle

<https://github.com>

by Sathya Prakash Vallepalli



AI-Based Network Fault Prediction

#134 / Poster

Academic Title:

AI-Driven Network Fault Prediction and Self-Healing Mechanisms for Proactive Network Management

Technologies: Python, Machine Learning, GNS3, Scikit-learn, Pandas, NumPy, Network Simulation, Data Analysis

Project Areas: Computer Networks

Project Supervisor: Dr Mujahid Tabassum

<https://github.com/JhansiVeeravalli/AI-Driven-Network-fault-prediction.git>

by Jhansi Veeravalli





Secure Data Transmission in IoT Devices

#135 / Poster

Academic Title:

Enhancing Security in Data Exchange Between IoT Devices

Technologies: Ascon-128, X25519, Kyber-512, Ed25519, Dilithium2, Arduino, ESP8266, ESP32, Raspberry Pi, C

Project Areas: Internet of Things

Project Supervisor: John Ronan

https://github.com/20115547-pixel/My_Research

by **Barath Raj Kumaran Vijayakumar**



AI Customer Service vs Human Support

#136 / Poster

Academic Title:

The Impact of AI Chatbot on Traditional Customer Service

Technologies: SPSS, python for survey data analysis

Project Areas: Information Systems and Modelling, Personal Independent Project

Project Supervisor: Cian Murphy

<https://github.com/Frankie222222222222/A-Comparative-Study.git>

by **Zhiyuan Xu**



Projects by Subject Area

AI/ML Development

Leanne Ahern

Evaluating LLM & RAG Based TTRPG Rule Assistants with a Focus on D&D 5e #72 / TL2.38 34

Davin Barron

AI-Powered Batch Failure Analysis and Reporting System #1 / TL2.49 3

Finn Bennett

Coach A.I - A.I. Powered Plyometric Workouts #2 / TL2.52 3

Ludmila Bulat

Scaniq: A Mobile Application for Ingredient Analysis Using Barcode Scanning and Food Data APIs #73 / TL2.38 34

Nigel Byrne

AI Driven Translation of Natural Language into DMX Lighting Control #74 / TL2.38 34

Amy Comyns Haugh

AI-Powered Smart Closet Organiser for Outfit Planning and Wardrobe Management #55 / TL2.28 25

Tommy Condon

AI-Powered Multi-Agent System for Code Repository Management #7 / TL2.51 5

Paul Dolan

AI Driven Financial Analytics Platform #56 / TL2.35 26

Liam Doocey

ML-Powered Network Intrusion Detection #10 / TL2.51 6

Satya Krishna Pavan Gundabattula

Investigating Effectiveness of AI-Assisted Responsive Web Design on Accessibility & User Engagement #123 / Poster 55

Jeff Halley

Agentic AI for Natural Language Querying & Insights from Time Series Monitoring Data #13 / TL2.35 7

Shoumik Hossain

Using AI to Predict Telecom Users' Satisfaction and Preferences from Behavioural and Service Data #104 / Poster 47

Yong Hsiang Hsieh

ai-powered Adaptive Learning Companion #60 / TL2.49 27

Calvin Hurley

Impact of Agentic AI Assistants on Engineer Velocity in Software Engineering Workflows #105 / Poster 47

Igor Kapusniak

Real Time Trajectory Prediction and Response for Quadraped Robots #15 / TL2.52 7

Christopher Kelleher

Real-Time Detection of AI-Generated Speech in WhatsApp Voice Messages #17 / TL2.35 8

Rhiannah Maher

A System for Multi-Model LLM Evaluation & Optimization #86 / Not Presenting 38

Krzysztof Malczuk

Design and Development of a Facial Interface for AI Agents #21 / TL2.50 9

Geoffrey Masamba

Improving Accessibility to Malawi Parliament Hansard with AI Summaries and Topic Tagging #128 / Poster 56

Gary McManus

Comparative Analysis of Traditional and Deep Learning for Imputation in Wearable Health Datasets #110 / Poster 49

Seán Murphy

Adversarial Multi-Agent LLM Simulation with Three-Tier RAG for Adaptive Attack and Defence #38 / TL2.28 16

Ava Neary

Development of a Secure, Multi-Source RAG Platform for Offensive Security Knowledge Management #25 / TL2.35 11

Cathal O'Connor

Reducing Attack Surface and Ingress Costs: An AI-Powered Framework for Minimal Container Base Image #112 / Poster 50

David O'Connor

AI-Powered Web App Enabling Quick Completion of Security Questionnaires with RAG #91 / TL2.38 40

Diego Pabon Torres

Android Application for Smart Gym Management and Exercise Form Correction via Pose Estimation #53 / TL2.25 25

Amador Pahim Segundo

LLM Code-review Bot Adoption: Contributor Retention and Maintainer Behaviour in Open Source #113 / Poster 50

Yadanar Phyo

A Comparative Analysis of LLM-Driven Code Generation from User Stories #116 / Poster 51

Krishna Rajakumar

Evaluating the Impact of Personal Information on Password Strength Using Large Language Models #117 / Poster 51

Fionn Reilly

Escrow System to Combat Ticket Touting #29 / TL2.52 12

Wolfgang Romanowski

Behavioural Editing of Large Language Models #30 / TL2.51 12

Raels SanTERS

AI-Powered Nutrition Tracking #69 / TL2.49 30

Adam Thompson

Distributed Intrusion Detection System with Consensus-Based Anomaly Validation #31 / TL2.25 13

Sathya Prakash Vallepalli

Designing Intelligent Business Processes Using Robotic Process Automation (rpa) #133 / Poster 58

Kazi Md Al Wakil

deepus-reconseg++: Joint Deformable Registration and Transformer-Based Ultrasound Reconstruction #119 / Poster 52

Shaun Walsh

Operationalising MLOps at the Edge-Deploy, Operate, and Monitor AI at the Edge #101 / TL2.38 43

Animation

Daniel Canning

Interdisciplinary Digital/Physical Product Ecosystem #42 / TL2.28 19

Emma Clarke

A Procedurally Generated 2D Unity Roguelite Game with Dynamic Difficulty and Adaptive AI #5 / TL2.49 4

Jake Dunphy O’Leary

Promotional Tool-Kit for a Musician with Included User Manual #43 / TL2.52 19

Vijaya Rama Seshu Meruva

AI Analytics for Hospital Length of Stay Prediction #129 / Poster 57

Automotive and Automation

Vincent Byrne

Automated Pipeline and Visualisation System for Tool Load Port Data #75 / Not Presenting 35

Graham Heeney

An Event Driven Azure Cloud Architecture for Automated Static Malware Triage #14 / TL2.25 7

Garret Lenihan

IoT Model of Rally Car Sensor and Telemetry System Displayed on Screen and in the Cloud #83 / TL2.38 37

Shane Power

Design and Implementation of a Secure Phone-as-Car-Key Platform for Car Rental Services #28 / TL2.52 12

Wolfgang Romanowski

Behavioural Editing of Large Language Models #30 / TL2.51 12

Pedro Royo

3 Approaches to Designing EU Compliant Labels (Scripting, Coding and AI Prompting) #96 / Not Presenting 42

Marina Zubialevich

IoT Project on Automating Measurements Using a Temperature Controller and Spectrometer #102 / TL2.38 44

CI/CD & Testing

Namra Fatima

An Integrated Real-Time Safety and Navigation Framework for Motorcyclists #57 / TL2.52 26

Jeff Halley

Agentic AI for Natural Language Querying & Insights from Time Series Monitoring Data #13 / TL2.35 7

Graham Heeney

An Event Driven Azure Cloud Architecture for Automated Static Malware Triage #14 / TL2.25 7

Sebastien Jazmin

System for Automating a Simulated Computer Network for Cybersecurity Training #37 / TL2.25 16

Laxmi Vara Prasad Kanisetty

Operational Energy Consumption in Monolithic and Micro Services Architectures #125 / Poster 55

Seamus McCarthy

Understanding and Overcoming Demographic Disparities in Gen AI Adoption for Software Testers #108 / Poster 48

Hanan N I Alhajahmed

AI-Human Career Guidance for Gaza-Evacuated Students in Ireland #130 / Poster 57

Cathal O'Connor

Reducing Attack Surface and Ingress Costs: An AI-Powered Framework for Minimal Container Base Image #112 / Poster 50

Grainne O'Connor

A Comparison of Container Image Vulnerability Scanners in a CI/CD Pipeline #92 / TL2.38 40

Pawel Paszki

Change-Based Regression Test Selection for Golang Applications #114 / Poster 50

Stephen Power

Implementing Passwordless Authentication Using FIDO2 and WebAuthn #67 / TL2.35 29

Wolfgang Romanowski

Behavioural Editing of Large Language Models #30 / TL2.51 12

Elizabeth Solomon

Agentic AI in Enterprise Information Systems: Redesigning Service Flows for Efficiency #50 / TL2.49 22

Zalán Tóth

Remote Monitoring Platform #41 / TL2.35 17

Sarah Walsh

The Gamified Personal Development App #47 / TL2.52 20

Shaun Walsh

Operationalising MLOps at the Edge-Deploy, Operate, and Monitor AI at the Edge #101 / TL2.38 43

Cloud Computing**Davin Barron**

AI-Powered Batch Failure Analysis and Reporting System #1 / TL2.49 3

Kanchana Chelappurathu Shanmughum

Enhancing Academic Certificate Authentication Using a Blockchain Approach #120 / Poster 54

Tommy Condon

AI-Powered Multi-Agent System for Code Repository Management #7 / TL2.51 5

Namra Fatima

An Integrated Real-Time Safety and Navigation Framework for Motorcyclists #57 / TL2.52 26

Paul Fitzgerald

Procedurally Generated 2D Roguelite Using Kubernetes for Online Multiplayer with Complex Enemy AI #12 / TL2.51 6

Jeff Halley

Agentic AI for Natural Language Querying & Insights from Time Series Monitoring Data #13 / TL2.35 7

Fahamidul Hasan

A Comparative Study of Terraform and Ansible for Cloud Infrastructure Automation on AWS #103 / Poster 47

Graham Heaney

An Event Driven Azure Cloud Architecture for Automated Static Malware Triage #14 / TL2.25 7

Jorja Holland

System for Deploying Security and Forensic Classroom Labs #36 / TL2.50 15

Laxmi Vara Prasad Kanisetty

Operational Energy Consumption in Monolithic and Micro Services Architectures #125 / Poster 55

Christopher Kelleher

Real-Time Detection of AI-Generated Speech in WhatsApp Voice Messages #17 / TL2.35 8

Harry Kelly

Deploying Security and Forensics Classroom Lab Environments to the Cloud #106 / Poster 48

Garret Lenihan

IoT Model of Rally Car Sensor and Telemetry System Displayed on Screen and in the Cloud #83 / TL2.38 37

Conor Leonard

Poc Investigating Use of Wearables and Sensors in Preventing Falls in Elderly Healthcare #84 / TL2.38 38

George Lipceanu

Sustainable Kubernetes Extension Stack #19 / TL2.50 9

Rhiannah Maher

A System for Multi-Model LLM Evaluation & Optimization #86 / Not Presenting 38

Matteo Mary

RunHub-Data-Driven Sports Management & Performance Monitoring Platform #22 / TL2.28 10

Geoffrey Masamba

Improving Accessibility to Malawi Parliament Hansard with AI Summaries and Topic Tagging #128 / Poster 56

Tomás McGrath

Smart SRS Language Learning App #64 / TL2.52 28

Conor McDonagh Rollo

Carbon-Aware Kubernetes Batch Scheduling with Historical Grid Carbon-Intensity Data #109 / Poster 49

Vijaya Rama Seshu Meruva

AI Analytics for Hospital Length of Stay Prediction #129 / Poster 57

Ava Neary

Development of a Secure, Multi-Source RAG Platform for Offensive Security Knowledge Management #25 / TL2.35 11

Cathal O'Connor

Reducing Attack Surface and Ingress Costs: An AI-Powered Framework for Minimal Container Base Image #112 / Poster 50

David O'Connor

AI-Powered Web App Enabling Quick Completion of Security Questionnaires with RAG #91 / TL2.38 40

John O'Mahony

Irish Broadband Information and Mapping Application #27 / TL2.25 11

Diego Pabon Torres

Android Application for Smart Gym Management and Exercise Form Correction via Pose Estimation #53 / TL2.25 25

Binu Peter

Cost-Performance Trade-offs in Free-Tier E-Commerce Analytics #115 / Poster 51

Shane Power

Design and Implementation of a Secure Phone-as-Car-Key Platform for Car Rental Services #28 / TL2.52 12

Wolfgang Romanowski

Behavioural Editing of Large Language Models #30 / TL2.51 12

Raels SanTERS

AI-Powered Nutrition Tracking #69 / TL2.49 30

Sicheng Mu

Design and Implementation of a Real-Time Football Data Platform #70 / TL2.50 30

Elizabeth Solomon

Agentic AI in Enterprise Information Systems: Redesigning Service Flows for Efficiency #50 / TL2.49 22

Sadia Sultana

An Evaluation of Latency and Concurrency Effects on Cloud-to-Client AI Inference Performance #118 / Poster 52

Kamil Szlufik

A Social Platform for Game Tracking and Discovery #100 / Not Presenting 43

Adam Thompson

Distributed Intrusion Detection System with Consensus-Based Anomaly Validation #31 / TL2.25 13

Shaun Walsh

Operationalising MLOps at the Edge-Deploy, Operate, and Monitor AI at the Edge #101 / TL2.38 43

Computer Forensics**Alexandra Dinea**

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