

**Expo'24**

**SETU (Waterford)  
Computing Expo 2024  
List of Final Year and Research Projects**

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## Section 1

# Undergraduate Programmes — BSc (Honours)

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# *BSc (Hons) in Applied Computing*

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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.



Academic Title:

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

**by Jack Aherne**

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

Project Areas: Cloud Computing, Software Development: Back End, Software Development: Web

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





## Face Attendaces System

Academic Title:

**Faceguard: Revolutionizing Attendance with Cutting-edge Face Recognition Technology**

**by Kedaranath Ambekar**

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

Project Areas: Cloud Computing

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



## VuLPES

Academic Title:

**Content Distibution Infrastrucure for Education Environments**

**by Jason Anca**

Technologies: JavaScript; IPTables; DynamoDB

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

<http://jasonanca.com/vulpes>



## Auto Ethernet Security: A Comparison

Academic Title:

**Comparative Analysis of Automotive Ethernet Security Protocols**

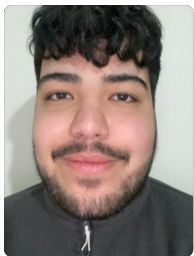
**by Alexander Berbenitskiy**

Technologies: Vector CANoe - Ethernet

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

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





## EduHost

Academic Title:

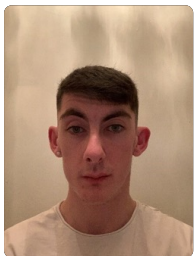
**EduHost - A Student Website Hosting Platform Web Application Powered by React and AWS**

**by Hasan Berk**

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

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

<https://projectshowcase.eduhost.ie>



## Automotive Lane Correction Assist

Academic Title:

**Lane Correction Assistance, an ADAS Concept**

**by Eric Butler**

Technologies: CANoe; CAPL; Lucid Chart; Vector Testing

Project Areas: Automotive and Automation

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



## Goblin Gadgets: A Turret Tale

Academic Title:

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

**by Keith Butler**

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

Project Areas: Game Development

[https://keithbutler-wit.github.io/final\\_year\\_project/](https://keithbutler-wit.github.io/final_year_project/)





## Digital Memorials

Academic Title:

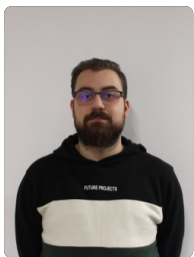
**A React, Cloud Based, Web Application for the 'Digital Memorials' Toolkit Service**

**by Dean Crowley**

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

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

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



## KapU - Entry Control for U

Academic Title:

**IoT-based Entry Control System Hosted on AWS**

**by Máté Domonics**

**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, Software Development: Core, Software Development: Front End, Software Development: Web

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



## Elementalist

Academic Title:

**3D Turn Based Game with Elemental Combat System**

**by Jack Donohoe**

**Technologies:** Unity; C#; Blender; Github; Trello; HLSL

**Project Areas:** Animation, Game Development

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







## Inprov

Academic Title:

**Automated Server Provisioning and Configuration Using Infrastructure as Code**

**by Jack Duggan**

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

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

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



## Blueprinted

Academic Title:

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

**by Cian Farrell**

Technologies: Unity; C#; JetBrains Rider

Project Areas: Game Development

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



## Gjallarhorn

Academic Title:

**Python Based Team Management and Workload Monitoring Tool**

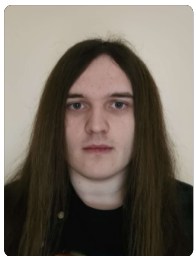
**by Cormac Farrell**

Technologies: Python; Javascript; html; css

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

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





## Q-Up: Your Queuing Companion

Academic Title:

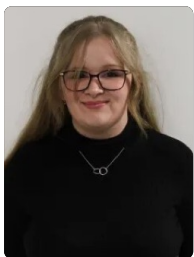
**Cloud-based Virtual Attraction Queuing System with Accompanying Android App**

**by Dylan Fennelly**

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

Project Areas: Cloud Computing, Software Development: Mobile Native

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



## EthicalShield: AI, Ethics & Security

Academic Title:

**Investigating Ethical AI – Capabilities & Implications in the Cybersecurity Space**

**by Rebecca Finnegan**

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

Project Areas: Artificial Intelligence, Computer Security

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



## Tick-It

Academic Title:

**Event Ticket Distribution Website Hosted on AWS**

**by Ilija Gacov**

Technologies: Amazon Web services; Javascript; React; Node

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

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





## Sun Life Dental Mobile App Upgrade

Academic Title:

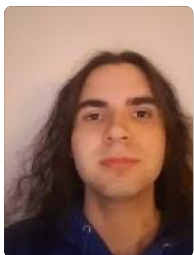
### Enhancing Sun Life Mobile Application: A Comprehensive Upgrade Project

by **Michael Gerber**

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

Project Areas: Software Development: Back End, Software Development: Front End, Software Development: Mobile Native

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



## VoiceGuard

Academic Title:

### Voice Authentication System Using Voice Analysis for Security

by **Marko Glavic**

Technologies: Python; Kotlin; AWS; FastAPI

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

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



## Electric Vehicle Diagnostics

Academic Title:

### ZEVonUDS Protocol Stack Implementation

by **Conor Gleeson**

Technologies: Vector CANoe; Vector CANdelaStudio; Raspberry Pi; C;

Project Areas: Automotive and Automation, Software Development: Core

<https://conorgleeson.github.io/ZEVonUDS-fyp-site>





## Twilight Sun

Academic Title:

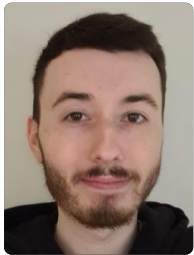
**Unity 2D Procedurally Generated Game with Advanced Enemy AI and Dynamic Difficulty**

**by Gedvydas Jucius**

Technologies: Unity; C#; GIMP; Git; Github; Trello

Project Areas: Game Development

[https://ged-j.github.io/Twilight-Sun-Website/dark\\_index.html](https://ged-j.github.io/Twilight-Sun-Website/dark_index.html)



## Driver Awareness System

Academic Title:

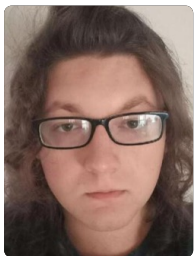
**Applying the Principles of Functional Safety to the Development of an Automotive Software Component**

**by Dean Lonergan**

Technologies: Vector CANoe; CAPL; CAN; Car2X; ADAS

Project Areas: Automotive and Automation, Software Development: Core

<https://20092570.wixsite.com/deanlonergan>



## The IoT GPS Computer

Academic Title:

**IoT Application for Recording GPS Data**

**by Dominik Martynski**

Technologies: Python; Bluetooth; Javascript; C++

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

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



## What's Happening in Vanus Creek

Academic Title:

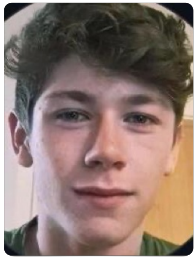
### What's Happening in Vanus Creek

Technologies: Unity; Blender

Project Areas: Game Development

<https://nonapplicable.com>

by Ciara Molloy



## Pilgrim Portal - A Website for Pilgrim

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, Software Development: Web

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

by Cillian Murphy



## PowerFlow Pro: Seamless EV Charging UI

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

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

by Emma Nolan





## Micro:Bit Sensor Pod Breakout Board

Academic Title:

**USV-Lir Micro: Bit Sensor Pod Abstraction and API**

**by Adam O'Brien**

**Technologies:** Microbit; QGroundControl; PixHawk; Typescript; MQTT; GitHub; Autodesk Eagle

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

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



## Hullbreaker

Academic Title:

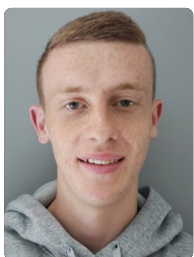
**A 2D, Roguelike, RPG Unity Game Utilizing Advanced AI, Dynamic Difficulty and Procedural Generation**

**by Anthony O'Keeffe**

**Technologies:** Unity; C#; GitHub; Trello

**Project Areas:** Animation, Game Development

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



## Service-oriented Diagnostics

Academic Title:

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

**by Stephen Power**

**Technologies:** SOME/IP; Vector CANoe; CAPL

**Project Areas:** Automotive and Automation, Software Development: Back End

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





Academic Title:

## Chaos Chefs

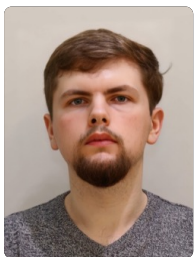
### Unity Based Multiplayer Video Game in Virtual Reality

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

Project Areas: Computer Networks, Game Development

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

by **Corey Shanahan**



Academic Title:

## Echoing Depths

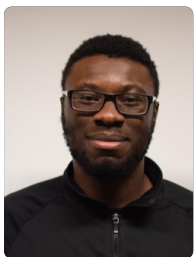
### First-person Retro-inspired Dungeon Crawling RPG

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

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

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

by **Darren Sills**



Academic Title:

## Mystic Mayhem

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

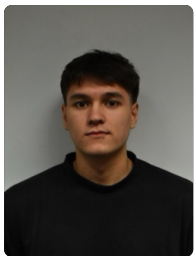
Technologies: Unity; C#; GitHub; Trello

Project Areas: Game Development

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

by **Moses Ugwulo**





## Smart Incident Sentinel

Academic Title:

### Logguard: An Intelligent Machine Learning Incident Detection System

by William Vasilev

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

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

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



## An Exploration into Data Collection

Academic Title:

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

by Georgina Walsh

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

Project Areas: Computer Security, Database and Analytics

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





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# ***BSc (Hons) in Computer Forensics and Security***

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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**

**by Ian Barnes**

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

**Project Areas:** Computer Networks, Computer Security, Software Development: Back End, Software Development: Front End, Software Development: Web

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





## StegCatcher - Hidden Data Detector

Academic Title:

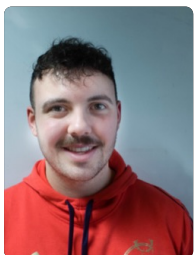
### Steganography Detection Plugin for Autopsy

by Andrew Baxter

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

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

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



## Attack Shield

Academic Title:

### System Attack Landscape

by Killian Halpin

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

Project Areas: Computer Security

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



## Early Days

Academic Title:

### Machine Learning-based Assessment of Relationship Compatibility and Romantic Dealbreakers

by Saoirse O'Donovan

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

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

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





## CyberClarity: Navigating Digital Safety

Academic Title:

### The Accessibility of Cybersecurity

by Ethan Roche Woodward

Technologies: Google Scholar; Google Trends; Online Forums; OSINT Tools

Project Areas: Computer Security

<https://ethanroche34.github.io/>



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## ***BSc (Hons) in Creative Computing***

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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**

**by Jessica Chitas**

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

**Project Areas:** Animation, Digital Graphic Design, Open Source

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





## 3D Printing & Prosthetic Limbs

Academic Title:

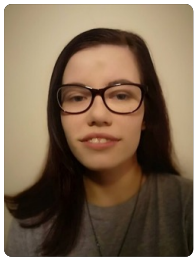
### Empowering Access to Prostheses with 3D Printing

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

Project Areas: Open Source, Personal Independent Project

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

by Mark Flynn



## The Witches Outcast

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

<https://lauryngore.github.io>

by Lauryn Gore



## Runnin

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

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

by Mia Gough





## Ascend

Academic Title:

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

by John Murphy

Technologies: Unreal engine 5; Maya 2024; Github

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

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



## AmpleMart

Academic Title:

### Website for Selling Refurbished Electronic Gadgets

by Binu Peter

Technologies: React JS; nodeJS; Express; MongoDB; Redux; Github;

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

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



## Gracie Massage

Academic Title:

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

by Sarah Scanlon

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

Project Areas: Software Development: Back End, Software Development: Front End, Software Development: Web

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



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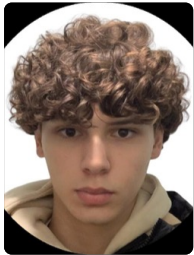
# *BSc (Hons) in Information Technology Management*

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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.



Academic Title:

## Assessing the Impact of Data Masking Techniques on Healthcare Database Systems Performance

by **Nazar Biletskyy**

Technologies: MongoDB; VsCode; AWS

Project Areas: Database and Analytics

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



Academic Title:

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

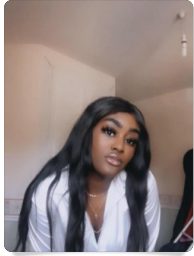
by **Leon Chapman**

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

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

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





## The Chronicles of Carlson

Academic Title:

### The Chronicles of Carlson Cooking Website

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

Project Areas: Software Development: Front End

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

by Faith Iwere



## Experimentation with Transkribus

Academic Title:

### Experimentation with Transkribus, Handwritten Text and AI Training

Technologies: transkribus; xmp; myphpadmin; vs code

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

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

by Mahfous Karimu



## Integrating Data for Compassionate Cite

Academic Title:

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

by Osamudimen Olague

Technologies: Power BI; SQL; visual studio code;

Project Areas: Database and Analytics

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







## Michael Cooley Collection

Academic Title:

### Creation of Cataloguing Tool for Special Collections

Technologies: MongoDB; HTML; CSS; Dublin Core;

Project Areas: DevOps, Software Development: Web

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

by Daniels Zabello



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# ***BSc (Hons) in Software Systems Development***

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

## **The aim of the BSc (Hons) in Software Systems Development is**

to produce a well-rounded software developer who can develop secure software with the most modern methods of software technology for all areas of application, and to analyse, select, and utilise appropriate emerging technologies for the development of a software solution in an organization context. It also addresses the ICT national skills shortages by providing graduates with the necessary skills to work effectively in a variety of software development roles, particularly in multi-disciplinary or intercultural contexts.



**Academic Title:**

## **A Fitness Web Application Integrating Google Fitness Store API for Personalized User Insights**

**by Jamie Conlon**

**Technologies:** React; MongoDB; NodeJS; Javascript; ChartJS; Google Console; FitnessAPI

**Project Areas:** Database and Analytics, Software Development: Back End, Software Development: Core, Software Development: Front End, Software Development: Web

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





Academic Title:

## Encryption Messaging Application

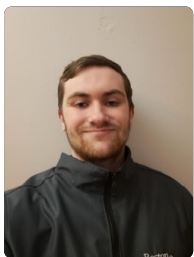
Technologies: Java; Google Firebase; Android Studio; Trello; Emulators

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

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

### Sealed

by William Crowe



Academic Title:

## Android Based Social Media Holiday Planning Application

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

Project Areas: Software Development: Mobile Native

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

### Family Trip

by Conor Grace



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, Software Development: Core, Software Development: Front End, Software Development: Web

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

### Dog Breed Identifier

by Dominik Kawka





## ReactStock: Dynamic Inventory Management

Academic Title:

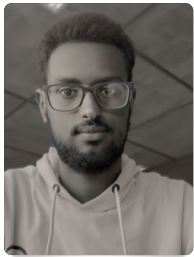
### Web Application-based Inventory Stock Management System

by **Maciej Marchel**

Technologies: React.js; Node.js; MongoDB

Project Areas: Software Development: Back End, Software Development: Front End

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



## Hydration Mate: Your Personal Hydration

Academic Title:

### Hydration Mate: An Android Application for Personalized Water Intake Tracking

by **Maxamed Maxamed**

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

Project Areas: Software Development: Mobile Native

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



## Fitness Fixed

Academic Title:

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

by **Fionn Moran**

Technologies: JavaScript; Python; Github; Trello; Firebase

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

<https://github.com/fionn-moran/FitnessWebApp>





## Bookmark-it: Power in Self-publishing

Academic Title:

**A Dyslexia-friendly Platform, Empowering New Authors to Self-publish and Promote Books  
by Elizabeth Neary**

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

Project Areas: Software Development: Back End, Software Development: Front End, Software Development: Web

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



## Giggly

Academic Title:

**Social Networking Platform Facilitating Dynamic Joke Sharing and Engaging User  
Interaction**

**by Evan Sullivan**

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

Project Areas: Software Development: Back End, Software Development: Core, Software Development: Front End, Software Development: Mobile Native

<https://evansullivan007.wixsite.com/giggly>



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## ***BSc (Hons) in Software Systems Practice (NUIST)***

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### **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 WIT. On successful completion of this fourth year in WIT, the student would be awarded a BSc (Honours) in Software Systems Practice from WIT as well as a BSc in Software Engineering from NUIST.



Academic Title:

### **Spring Boot Powered Supermarket Supply Platform Management System**

**by Jiahan Chen**

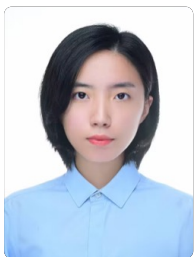
**Technologies:** Springboot; Vue.js; Kafka; Mysql; Mybatis-plus; Redis

**Project Areas:** Database and Analytics, Software Development: Back End, Software Development: Front End, Software Development: Web

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



### **Goods Galore**



Academic Title:

### **A 2D Roguelike Adventure Game on Windows Computer**

**by Sisi Chen**

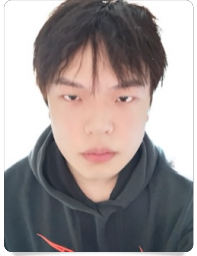
**Technologies:** c#; unity; photoshop; git; dotpict; visual studio

**Project Areas:** Game Development

<https://github.com/Bdeparture>



### **Wasteland Odyssey**



Academic Title:

## Recipe Sharing Web Application

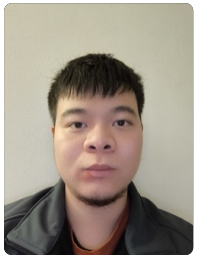
Technologies: React; Express; MongoDB

Project Areas: Software Development: Mobile Hybrid

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

## Recipe Web App

by Haoxuan Gu



Academic Title:

## Students Recipe App

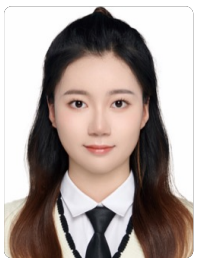
Technologies: node.js; JavaScript; MongoDB; Git; ReactNative

Project Areas: Software Development: Mobile Native

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

## Student Spoon

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, Software Development: Front End, Software Development: Web

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

## FeastClick

by Yisi Huang





## TruckTrack: Smart Trucking Data Power

Academic Title:

### TruckTrack: Fleet Tracking & Management

Technologies: Vue; Springboot; MyBatisPlus

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

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

by Ruida Jiang



## GameTrack

Academic Title:

### Player Data Analysis Management System

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

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

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

by Xiang Li



## Lovely Transfer

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, Software Development: Front End

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

by Yangqing Li







## AgroGuard

Academic Title:

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

by Haopeng Liang

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

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

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



## Base Defense: The Last Stand

Academic Title:

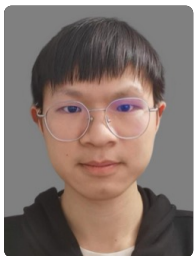
### Seek to Survive: A Comprehensive Design and Development of a Side-scrolling Survival Game Incorporat

by Long Liu

Technologies: Godot; GDScripts; C#;

Project Areas: Game Development

[https://1730177143.github.io/FYP\\_doc/](https://1730177143.github.io/FYP_doc/)



## Sing with Vocarina

Academic Title:

### Music Producing and Sharing Application with Voice Synthesizing and Tuning

by Yiwei Liu

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

Project Areas: Software Development: Core, Software Development: Front End, Software Development: Web

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





## 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

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

by Yingying Lu



## Simple-Video-Net

Academic Title:

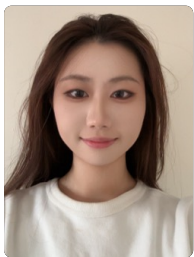
### Live Streaming Media Server Based on Real Time Streaming Protocol

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

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

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

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, Software Development: Front End, Software Development: Web

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

by Jingyi Wang





## LitConnect: Tailored Reading & Community

Academic Title:

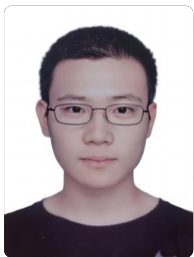
### Intelligent Book Sharing and Communicating System That Includes Recommendations and Grouping

by Jia Yang

Technologies: JavaScript; React; Node.js; MySQL

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

[https://github.com/Yolanda2002/FYP\\_LitConnect](https://github.com/Yolanda2002/FYP_LitConnect)



## A Place for Emotion Companion

Academic Title:

### Comfort Talker

by Yuanzhe Yang

Technologies: Vue; Express; Websocket

Project Areas: Software Development: Back End, Software Development: Core, Software Development: Front End

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



## Globetrot Guru

Academic Title:

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

by Sirui Yao

Technologies: JAVA; JQuery; Springboot; MYSQL

Project Areas: Software Development: Back End, Software Development: Front End, Software Development: Web

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





Academic Title:

## Medical Question Answering System Based on Knowledge Graph

by Yiming Yu

Technologies: neo4j, react

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

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



Academic Title:

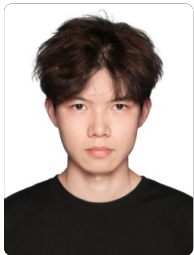
## Spiral: The Dynamic Rhythm Game

by Shaobo Zang

Technologies: Unity Engine; Android Studio; C#

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

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



Academic Title:

## Emerald-ParcelHub: Delivery Redefined

by Shijin Zhang

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

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

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

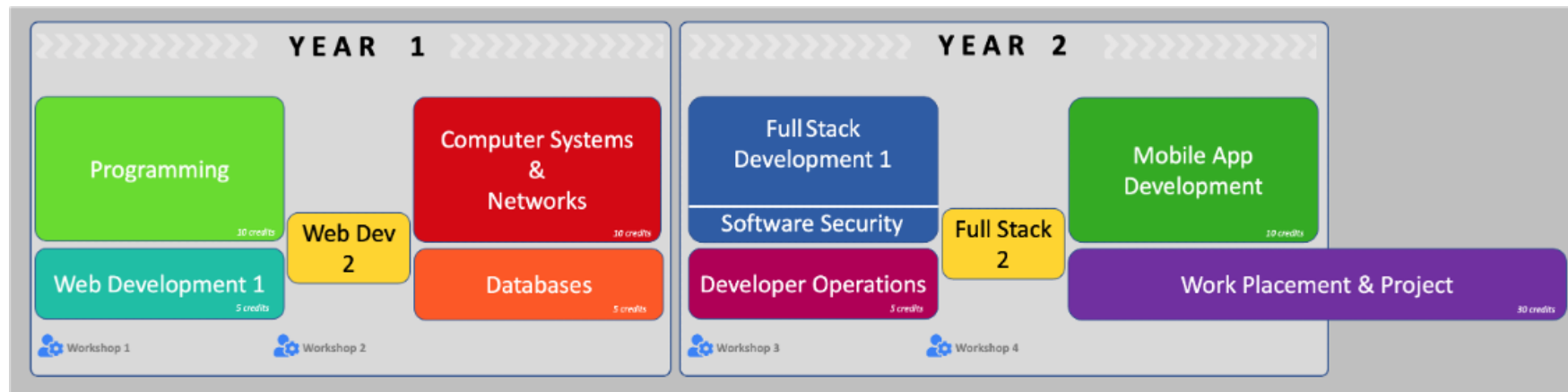


## Section 2

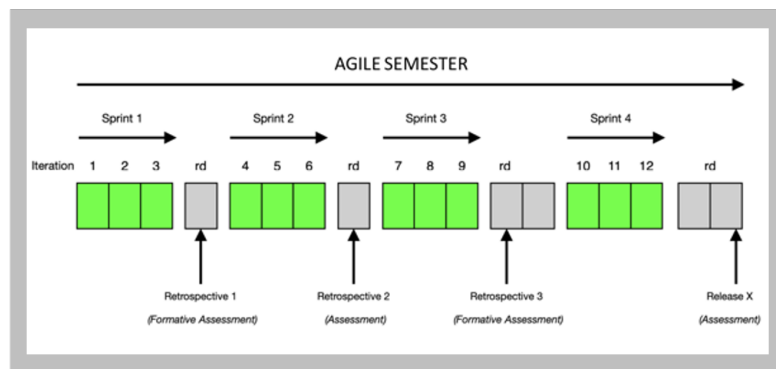
# Higher Diploma in Science — HDip

# Higher Diploma 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.

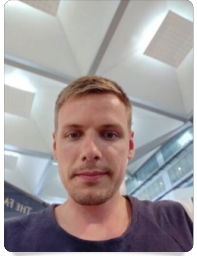


In addition there is a six lesson on-demand module each summer. Online delivery over the two years is supplemented by four onsite workshops to further enhance and deepen the learning experience, and learning community. Although not mandatory, these should be deemed essential. While all taught modules 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: Software Development: Back End, Open Source, Personal Independent Project, Software Development: Mobile Hybrid

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

## Food Log

by Ignas Baranauskas



Academic Title:

## Task Management System

Technologies: HTMX; Django; MySQL

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

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

## Task Management Web App

by Piotr Bielski



Academic Title:

## A Full Stack Web Application for Assignment Submission and Grading

Technologies: SvelteKit; Tailwind; Supabase

Project Areas: Software Development: Web

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

## Submissions

by Ian Blake





## GrubShare: One App, Many Tastes

Academic Title:

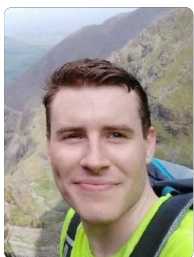
### GrubShare: An Application to Share Recipes and Meal Ideas

by Daniel Coffey

Technologies: React Native; JavaScript; Firebase

Project Areas: Database and Analytics, Personal Independent Project

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



## React BIM File Console

Academic Title:

### BIM File Console: React Platform Console to View and Interact with BIM Model Element Files

by Darragh Conneely

Project Areas: Information Systems and Modelling, Software Development: Front End, Software Development: Web, Work Based Project

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



## Ensemble

Academic Title:

### A Multi-platform Catalogue Application for Community Sharing

by Ellen Cooney

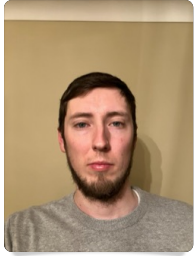
Technologies: Flutter; Dart; Firebase

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

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







Academic Title:

## XMDM - Web Application for Managing Parameters in Other Applications

by David Cotter

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

Project Areas: Work Based Project

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



Academic Title:

## EVCarHireIreland.com

### EV Car Hire Reservation Web Application

by Damien Driver

Project Areas: Software Development: Web

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



Academic Title:

## Kraken

### Infrastructure as Code for Kubernetes

by Eoin Fennessy

Technologies: Go; Kubernetes; AWS; Kubebuilder; Docker

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

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





## All Weight is Beautiful

Academic Title:

### Interactive Art Generator Using a Digital Weighing Scale API

by Isadora Fitzgerald

[https://github.com/fitzdora/reactAwib\\_pa.git](https://github.com/fitzdora/reactAwib_pa.git)



## Markify

Academic Title:

### A Web App for Managing Quality in Contact Centers

by Adam Gibson

Technologies: Sveltekit; NodeJS; MongoDB; ChartsJS; JOI; Mongoose; BCrypt; Hapi; API; Bootstrap

Project Areas: Software Development: Web

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



## SpareRoom

Academic Title:

### 'SpareRoom' - A Student Accommodation Web Application

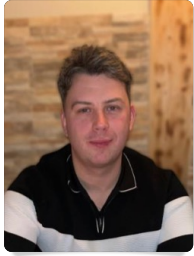
by Mairead Holton

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

Project Areas: Software Development: Web

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





Academic Title:

## Automated Document Regression Testing Tool

### Dart

by Matthew Hornby

Technologies: React; Node; Python; Kotlin

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

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



Academic Title:

## The Ultimate Mobile Festival Companion

### Festi-Friend

by Linda Lynch

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



Academic Title:

## LearnLocal

### LearnLocal

by Rodrigo Machado da Silva

Technologies: React; Firebase

Project Areas: Software Development: Back End, Software Development: Front End

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





## Neo ChatBot

Academic Title:

### Neo ChatBot Creator Web App

by **Eugenio Manlapaz**

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

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

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



## FocusSphere

Academic Title:

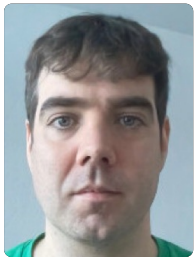
### Android Native Application for the Management of Common ADHD Challenges

by **Carol Marjara**

Technologies: Android; Kotlin; Firebase; SQLite; Room; Jetpack Compose

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

<https://linktr.ee/carolmarjara>



## My Feedback Form

Academic Title:

### A Web App Used to Create and Deploy Online Surveys

by **Gregory Mc Carthy**

Technologies: Typestripe; React; Python FastAPI; PostgreSQL

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



## SeaSplash App

Academic Title:

**Mobile App Promoting Safe Swim Locations for Swimmers**

**by John Mc Donald**

Technologies: Flutter SDK; Dart; Firebase; API

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

<https://bit.ly/hdipseasplash>



## Server Life Cycle Manager

Academic Title:

**A Web Application for Managing it Equipment Primarily in Data Center**

**by Tibor Molnar**

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

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

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



## WoofWatch

Academic Title:

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

**by Donal Murphy**

Technologies: Networking; Flutter; Scripting; IoT; App Development

Project Areas: Internet of Things, Personal Independent Project, Software Development: Mobile Hybrid

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





## AO-AutoScaler Operator

Academic Title:

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

**by Conor O'Malley**

Technologies: Kubernetes; Openshift; Operators; Docker; Golang

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

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



## MediShorts

Academic Title:

**Web Application to Manage Medication Shortages**

**by Ayodele Onamusi**

Project Areas: Software Development: Web, Personal Independent Project

[https://ayo-codes.github.io/MediShorts\\_Info/](https://ayo-codes.github.io/MediShorts_Info/)



## SiteVisor

Academic Title:

**Digital Twin Application for Buildings Monitoring and Asset Management**

**by Grzegorz Piotrowski**

Project Areas: Internet of Things, Software Development: Web

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





**Academic Title:**

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

**by David Roche**

**Project Areas:** Internet of Things

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



## KCloud



**Academic Title:**

**Second Hand Shopping App: SwapN**

**by Natsumi Shimizu**

**Technologies:** Kotlin; Firebase; Google Colud; Stripe

**Project Areas:** Software Development: Mobile Native

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



## SwapN

**Academic Title:**

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

**by Wojciech Skrzynski**

<http://www.snapsite.pro>



## Snapsite.pro

## The Great Filter

Academic Title:

### The Great Filter Ultimate Talent Connection Tool

Technologies: Android Studio; Kotlin; Jetpack Compose

Project Areas: Software Development: Mobile Native

<https://github.com/Gavin-Soady/TheGreatFilter.git>

by Gavin Soady



## Vimo.lt

Academic Title:

### Cross-platform Mobile Application for Gaming Community

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

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

<https://vimo.lt/setu>

by Vidmantas Valskis



## Charisma Christian Fellowship

Academic Title:

### Web Application

Technologies: node;

Project Areas: Software Development: Web

<http://github.com>

by Aby Varughese





## Section 3

# Master in Science Programme — MSc

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## *MSc in Computing*

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The MSc in Computing currently has three cohorts:

- MSc in Computing (Enterprise Software Systems)
- MSc in Computing (Information Systems Processes)

### **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.

### **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.

## MSc in Computing (Enterprise Software Systems)

### Sentiment Analysis in E-learning



Academic Title:

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

**by Britty Abraham**

Technologies: PYTHON

Project Areas: Machine Learning, Software Development: Core

<https://github.com/20105650>



### Comparative Study of Iac Tools



Academic Title:

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

**by Divya Maria Appachan**

Technologies: Terraform; Ansible; AWS

Project Areas: Artificial Intelligence, DevOps

<https://github.com/Divya-maria-appachan/Comparative-Study-on-the-Provisioning-Time-of-Terraform-and-Ansible-in-Infrastructure-as-Code>



### User Centered Design in Software



Academic Title:

**Incorporating User Centred Approach in Agile Software Development**

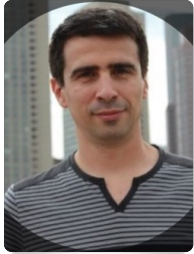
**by Serene Babu**

Technologies: ReactJs; Figma

Project Areas: Software Development: Web

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





## Code Generation for RESTful API Services

Academic Title:

### Automation of Code Generation for RESTful Services

by Alexander Borskiy

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

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

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



## Navigating Cloud: Challenges, Components

Academic Title:

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

by Uchechukwu Henry Ezeigwe

Technologies: AWS; NodeJS; ReactJS; Javascript

Project Areas: Cloud Computing, Software Development: Front End

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



Academic Title:

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

by Ashika Hussain

Technologies: Qualitative analysis

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

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





## Securing Password Storage

Academic Title:

**Securing Password Storage Using Hybrid Approach of Hashing and Encryption**

**by Farhaan Kaleem**

Technologies: Database; AES Algorithm; Argon2 Algorithm; JavaScript

Project Areas: Computer Security, Software Development: Web

<https://sample.com>



## Revolutionising Tutors Analytics

Academic Title:

**Enhancing Tutors Analytics: A Comparison Study of Database Driven Event Systems**

**by Michael Kelly**

Technologies: Supabase; Firebase; PartyKit; PostgreSQL Changes; Broadcast; WebSockets; Edge Networks

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

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



Academic Title:

**Optimized Three-pivot Quicksort Algorithm**

**by Javid Moradi**

Technologies: CUDA; C++

Project Areas: Software Development: Core

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



## Autonomous Vehicle AI Solutions Architec

Academic Title:

**AI in Autonomous Vehicle**

**by Pratik Ealumalai Mudliyar**

**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>



## AI to Bi: LLMs for Data Visualisation

Academic Title:

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

**by Laura Norbury**

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

**Project Areas:** Artificial Intelligence, Database and Analytics

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



## Artificial Intelligence for Hostels

Academic Title:

**Integrating Artificial Intelligence for Optimising Hotel Productivity**

**by Renu Palappamannil Peter**

**Project Areas:** Artificial Intelligence

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





## Generative AI Code Migration Pipeline

Academic Title:

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

**by Emma Roche**

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>



## Analysis of Cross-platform Development

Academic Title:

**Analysis of the Use of Cross-platform Development**

**by Ilia Tokarev**

Technologies: Android; Flutter; Firebase; Kotlin; Dart

Project Areas: Software Development: Mobile Native

<https://drive.google.com/drive/u/4/folders/0ANM6FywSSMuYUk9PVA?q=parent:0ANM6FywSSMuYUk9PVA%20sharedwith:public>



## Web Performance: Mapbox vs. Google Maps

Academic Title:

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

**by Madhan Kumar Venugopal**

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

Project Areas: Software Development: Back End, Software Development: Front End, Software Development: Web

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



## MSc in Computing (Information Systems Processes)

### CloudBlend: The Future is Here



Academic Title:

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

by Saad Ullah Anjum

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

Project Areas: Cloud Computing

<https://github.com/Saad-Ullah-Anjum/Hybrid-Cloud-Computing-Infrastructure-as-a-Service-IaaS-Alongside-on-Premises-Technologies>



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### Embracing Sustainability

Academic Title:

#### Sustainability in Car Manufacturing Industry Using Edge Computing

by Chandan Bannihatti Gururaja

Technologies: Edge Computing supported devices

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

<https://github.com/CHANDANBG2609/EDGE-COMPUTING-DISERTATION?tab=readme-ov-file#embracing-sustainability-revolutionizing-car-manufacturing-through-edge-computing>



### Edge Computing Solution for Smart City

Academic Title:

#### Implementing Edge Computing in IoT-based Smart Cities

by Anus Farid

Technologies: Edge Computing; Cloud Computing; IOT; Internet

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

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







## How Scrum Product Owners Drive Success

Academic Title:

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

**by Bryan Joseph Dias**

Technologies: Agile Scrum

Project Areas: Work Based Project

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



## A Survey to Find the Acceptance

Academic Title:

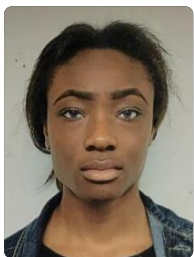
**A Survey: Acceptance of Spanning Tree Protocol and ERPS in IT Infrastructure**

**by Sushind Mandakathinkal Suresh**

Technologies: SURVEY; SPANNING TREE PROTOCOL; ETHERNET RING PROTECTION SWITCHING

Project Areas: Computer Networks, Computer Security

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



## Scaling Agile Methods

Academic Title:

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

**by Karen Ogiugo**

Technologies: Survey tool

Project Areas: Information Systems and Modelling

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





## Quality Processes into their SDLC

Academic Title:

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

**by Nancy Raju**

Technologies: GOOGLE FORMS; SURVEY

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

<https://gitlab.com/dessertation1/quality-in-sdlc/-/commit/dd5d822c0a9faf1112cfc7a2eecf0636344eb269>



## Beyond Robo-bankers: AI Takes Over

Academic Title:

**The Impact of AI on Digital Banking**

**by Malik Hashim Raza**

Technologies: Artificial Intelligence

Project Areas: Automotive and Automation

<https://malikhashimraza.blogspot.com/2024/02/the-impact-of-ai-on-digital-banking.html>



## Process Orchestration in IoT Ecosystem

Academic Title:

**IoT Streamline: Orchestrating Efficiency for Scalable IoT Systems**

**by Aleena Santhosh**

Technologies: Survey

Project Areas: Internet of Things

<https://github.com/Aleenasanthosh998/IoT.git>





## Blockchain in SCM of E-Waste

Academic Title:

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

**by Sowmith Simmasetty**

Technologies: Blockchain Technology

Project Areas: Database and Analytics, Information Systems and Modelling

<https://sowmith7700.github.io/sowmithsimmasettydissertation/>



## 3D Printing & CNC: The Future of

Academic Title:

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

**by Abdul Wahab**

Technologies: 3d Printer; Quality Management; CNC

Project Areas: Artificial Intelligence, Automotive and Automation

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



## Cloud Storage in Small Healthcare Clinic

Academic Title:

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

**by Zijian Wang**

Technologies: Secondary Data Analysis approach

Project Areas: Cloud Computing, Software Development: Front End

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





## Safeguarding Supply Chains Cybersecurity

Academic Title:

### Cyber-security in Smart Logistics Network

by **Tamunoiboroma Abiye Whyte**

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

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

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



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#### Jessica Chitas

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3D Turn Based Game with Elemental Combat System ..... 5

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An Animated Short Story Using 3D and 2D ..... 18

#### Mia Gough

2D-animated Lyric Video with Artist Interview ..... 18

#### Anthony O Keeffe

A 2D, Roguelike, RPG Unity Game Utilizing Advanced AI, Dynamic Difficulty and Procedural Generation ..... 11

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