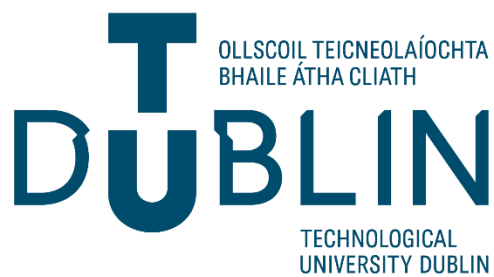


2025

Project Fair



COMPUTER SCIENCE

TUDublin

School of Computer Science

4/28/2025

Project Fair 2025

Project Descriptions

1. **Aaron Burton** C21403052@mytudublin.ie

Facial Expression Recognition

This project is of a Facial Expression Recognition software system that will be able to track changes in people's facial movements and give an accurate assumption of that person's emotional state. The idea for the project is for it to easily track and visualize users emotions in each session, using a convolutional neural network model, that has been developed to identify these changes in expressions.

2. **Anmar Saoud** c21402094@mytudublin.ie

TransitGo

A transit app for Ireland which uses a Tree-regression model to accurately predict when public transport is arriving to a given stop / station.

3. **Ben Corran** C21430484@mytudublin.ie

Rhythm Academy

Rhythm Academy is a customizable rhythm and beat training webapp. It allows users to practice performing multiple rhythm patterns in different time signatures and tempos simultaneously, along with common drum patterns, popular rhythm challenges and fully custom patterns that the user can create themselves.

4. **Cathal Small** C21414822@mytudublin.ie

Zoomies

Zoomies is a pet management app geared towards families. For each family, there is one core account with sub-accounts linked to it allowing everyone in the family to keep track of important details such as height, weight and medical conditions which will be stored in profiles you've created for your pets. These profiles can be used to set individual reminders for feeding or walking that can be completed by anyone linked to the core account, sending

5. **Cecilia Luan** c21379843@mytudublin.ie

ShelfLife: Food waste management and sharing app

PantryPals is a mobile app that tackles food waste through smart inventory management and community sharing. Users can scan barcodes or take photos of produce to instantly add items with estimated expiry dates. Items are sorted into

different sections, with notification reminders before they expire. Surplus food can be shared with others via a location-based listing system, where users browse, reserve, and arrange pickup through in-app chat. The app includes personalized dashboards tracking items shared, reserved, and environmental impact like CO₂ and money saved.

6. Chidubem Amechi C21418732@mytudublin.ie

EduLink

EduLink – the faster, better, and easier way for students and teachers to share information. It is a college platform that helps users find reliable answers quickly. Students can ask questions, join discussions, and get help from teachers and peers, while teachers can create and manage learning spaces. EduLink makes learning more organized and interactive for everyone.

7. Cian McKenna C21755919@mytudublin.ie

Airgead Planner

Airgead Planner is a web application that helps young adults in Ireland take control of their finances by bringing everything they need into one easy-to-use platform. It combines budgeting, savings tracking, loan repayment, income tax breakdowns, pension planning, and a stock market simulator, all designed specifically for the Irish financial system. This project provides real-time financial insights, offering personalized suggestions based on spending habits and goals. Through visualization, simulation, and gamification, users can see the impact of their financial decisions, test different strategies without risk, and stay motivated with goal-based rewards. Built with Django and React and hosted on AWS, the platform ensures a smooth, secure, and scalable experience, giving users the tools they need to manage their money with confidence.

8. Ciaran Cruz C21318233@mytudublin.ie

Sperocare

The primary aim of my project is to provide parents and educators with all the tools they currently use to monitor and observe children and combine them into an all-in-one solution. It essentially allows for both the parents and teachers to see how the children are doing. The app will offer messaging between the teachers and parents and a public document repository for both parents and staff. Teachers can put up resources for parents to read. Teachers will be able to upload photos, videos and notes based on the observations of the children for the parents to see.

9. Junhan Dang D18123630@mytudublin.ie

StudentHub

Student Hub is a mobile information sharing and social media platform built with React Native, Expo, and Firebase, designed to allow users to share personal experiences, explore categorized content, and engage through features such as

following, posting, and messaging. Users can create posts with images and text, browse through the app to discover valuable insights, and ultimately find the experiences or answers they are looking for.

10. Daniel Phillips c20421994@mytudublin.ie

CoLab: A Collaborative Document Editing Platform

CoLab is a collaborative document editing platform that enables multiple users to edit a document simultaneously with updates synchronised in real-time. The application allows users to create documents, add other users to the document so they can edit and collaborate, and provide a version history of documents to allow the reversion of accidental document changes and edits. Additional features, such as a live text chat, notes at specific locations on the document and user presence indicators, enhance the collaborative experience. By combining these capabilities, the application aims to allow users to work efficiently on shared documents, promoting productivity and teamwork, regardless of physical location. The project utilises React.js and Quill.js on the frontend, Node.js with Express, Y.js, and Socket.io on the backend, and MongoDB as the database.

11. Darren Grants c21427252@mytudublin.ie

Momentum - The app against procrastination

The Project idea is combining the techniques and game approach of Duolingo the linguistic language learning app into an app focusing on assisting users who procrastinate and may suffer from similar or more in-depth conditions that affect time management or organisation. Such as dementia, ADHD and others. Many applications aimed at these users or simply people struggling with procrastination lack the tools required to help beat their habits. By applying simple effective gamification, the result is to encourage the users of the app to better understand themselves and reward themselves positively.

12. David McCormack C21755305@mytudublin.ie

PTFitness

A personal trainer web application that allows personal trainers to manage their client base by providing their clients with the resources and support they need all on one app.

13. Derek Oduwa C21371446@mytudublin.ie

Resume Analyser

The Resume Analyser is a web application designed to help users improve their resumes by comparing them against job descriptions using Natural Language Processing (NLP). The system offers personalised feedback on how to enhance resumes by adding or adjusting content to better align with job requirements. By leveraging technologies like Django for the backend, React.js for the frontend,

and MongoDB for database management, the project ensures seamless user interaction and data management. The analysis will be powered by NLP libraries such as Spacy or NLTK, alongside Gemini, to provide personalised feedback and recommendations on how to align resumes with job requirements. Users can view results through an interactive dashboard, helping them enhance their chances of job success. The final deliverable will be a functional web-based application that provides accurate and useful resume feedback.

14. Dmytro Kosynskyy C21376161@mytudublin.ie

World Generation Through Tectonic Simulation

A method of generating video game worlds through methods that do not require perlin noise, ie through tectonic simulation

15. Eric Tesema C21380331@mytudublin.ie

Celestial Mechanics: A 3D Simulation of Planetary Orbits

A C++ based application that allows for the simulation of orbiting bodies through implementations of Newton's Law of Gravitation, the Vis-viva equation and other equations of motion within N-body systems. It accurately models gravitational interactions, enabling users to visualize complex orbital dynamics and analyze the long-term evolution of celestial bodies in a controlled environment. Manipulate parameters in real time to observe their effect on other bodies in the system for hands-on experimentation with theoretical knowledge. With customizable initial conditions, multiple visualization modes, and precise numerical integration methods, the application provides an intuitive yet powerful tool for studying planetary formation, orbital resonances, and chaotic motion in astrophysical systems.

16. Ethan Holohan c20322553@mytudublin.ie

Quatermaster

My project is an android app that is designed to assist and enhance the airsoft experience by giving players all the information about the game and site as possible and allowing staff to monitor the progress of the game and ensure the safety of all the connected players.

17. Ethar Boudouara C20452282@mytudublin.ie

Explore Eire

Tourism Web application that recommends activities based on the current weather and user preferences to enhance tourists experience in ireland, the project also include planner and top rated activities with user preferences.

18. Fajar Albalushi d20125707@mytudublin.ie

Budgetwise

BudgetWise is a cloud-based personal finance application designed to help users manage their money efficiently. It provides predictive budgeting to anticipate irregular expenses, ensuring financial preparedness. The app follows the 50/30/20 rule, supports category-based tracking, and allows users to create sinking funds for planned expenses. Users can import transactions manually or

from PDFs, with automated categorization simplifying tracking. The app leverages ARIMA time series forecasting, offloading predictive computations to a Node.js backend for efficiency. Transaction data is securely stored in Firebase, ensuring real-time access. BudgetWise features an intuitive UI/UX with interactive visualizations powered by React and Chart.js/D3.js. Users can generate financial reports, monitor spending trends, and set budgeting goals to improve money management. By combining automation, AI-driven insights, and secure cloud-based storage, BudgetWise makes budgeting smarter, more accessible, and effective for users seeking better financial control.

19. Gavin Cunningham C21483936@mytudublin.ie

Learn to Drive

The aim of Learn to Drive is to allow users to be able to get feedback on their driving behaviour and habits. This is accomplished by using the front and rear camera to capture the drivers gaze and attention along with the vehicles position. The phones sensors are used in order to detect the users movement and to detect when the driver has turned. The Data and video are processed separately to provide feedback for the user on how they can improve their driving and what needs to be changed for their driving test.

20. Grace MacDonnell c21307546@mytudublin.ie

Windows Log File Analysis

The project is a lightweight, cost-effective security information and event management (SIEM) software, designed specifically for Windows systems. Developed in Python and run locally on a desktop or laptop, it will allow security teams to collect, parse, store, and analyse Windows Event security logs. Unlike the built-in Windows Event Viewer, it provides structured insights with a custom graphical user interface, such as timelines and information panels. Other key features include log ingestion & parsing for relevant security events, local database storage and ability to save custom filters. This project provides an affordable, user-friendly alternative to complex SIEM platforms, helping businesses improve security monitoring without requiring specialised expertise.

21. Joseph Hadassah C21382216@mytudublin.ie

Xchange

This is platform targeted to students going on study abroad to help them connect, buy important needs and build a community from the touch of their finger tips.

22. Ian Rainier Hipolito C21436494@mytudublin.ie

QueueEase

QueueEase is an innovative, cross-platform web application designed to address the inefficiencies and frustrations of traditional queuing systems across diverse sectors and industries, including hospitality, healthcare, and government services. By using technologies such as QR codes and, geolocation services, QueueEase transforms how users interact with queues, offering a seamless and user-friendly experience while improving operational

efficiency for businesses and services. My overall aim for QueueEase, is to develop a scalable, efficient, and user-friendly queue management web application that enhances customer satisfaction, optimises business operations, and offers actionable insight through advanced technologies.

23. Ivan Zenin C21406436@mytudublin.ie

Sentinel

Sentinel is an IoT Vulnerability Scanner, a tool for scanning and discovering security weaknesses in IoT devices operating on a local network. This solution aims to scan for fundamental IoT security threats such as weak passwords, open ports, and outdated firmware, and save the scan results into a secure database. By periodically scanning a user's own local network, Sentinel measures the security of their IoT infrastructure and warns them of any risks before attackers are able to take advantage. Sentinel offers an intuitive web-dashboard where users can view reports on connected devices, detected vulnerabilities and receive real time alerts against suspicious activity on their local network. Sentinel utilizes Python for backend development, Flask for server-side routing and MongoDB for data persistence. Sentinel integrates with Nmap for the network scanning functionality and utilizes the NVD (National Vulnerability Database) API maintained by NIST (National Institute of Standards and Technology) for querying services and versions identified in devices. The frontend, built using Bootstrap, provides an intuitive web-interface with features such as session tracking, customizable scans, and vulnerability details.

24. Jaision Vargis c21318043@mytudublin.ie

TU Dublin Chatbot

The TU Dublin Chatbot is a chatbot made for Technological University Dublin students to help answer their questions about TU Dublin policies. The chatbot is powered by generative AI and uses documents containing university policies to answer students' queries. This allows students to have their questions on university policies answered quickly and efficiently rather than having to email the school directly.

25. John Hinch C21718369@mytudublin.ie

Rhythm Render

A Virtual Reality Music Sequencer that renders a 3D model performing the sequence that the user has entered. The user interacts with a 3D set of rows and columns in a VR space to create their music sequence. They then hit the perform button where a model is then created that performs the sequence created.

26. Jon Kehoe c21372766@mytudublin.ie

Golf swing Analysis

This project is about analysing a users golf swing and provides relevant information back to them about their swing. It also includes real time swing coaching to improve their issues in their swing. Helps users understand their swing and provide interactive coaching exercises.

27. Joseph Egan C20389531@mytudublin.ie

Automatic exam essay grader with artificial intelligence feedback

My automatic exam essay grader with AI feedback program allows students to get estimates of the quality of their exam practice and possibly points of feedback and advice on weaknesses and potential areas of improvements for their study. This system will use a combination of BERT and LSTM machine learning models to grade practice exam papers. The results of this paper and the grading rubric, and the paper will be passed on into an AI that will rewrite the grade and feedback into a more human readable format and with additional context.

28. Joshua Flores C21352183@mytudublin.ie

Slainte: HSE's AI-Powered Healthcare Assistant with RAG Knowledge Enhancement

Slainte is a conversational health assistant designed for the HSE website to help people access reliable healthcare information and navigate public health services more effectively. This digital assistant serves as a friendly first point of contact for users seeking guidance on healthcare services, COVID-19 information, available benefits and schemes, and other health-related resources.

The project addresses the growing need for accessible digital health tools that reduce barriers to healthcare knowledge, particularly for those unfamiliar with complex healthcare systems. By combining user-friendly design with intelligent response capabilities, Slainte helps bridge the gap between public health resources and the people who need them most.

29. Kacper Lysakowski c21471486@mytudublin.ie

TurboRealm: Detailed World Generator

Build massive, game-ready worlds in minutes!

With TurboRealm, you can create stunning worlds that suit your game's needs! Forests? Check. Roads? Done. Cities? Boom – already built!

Unleash even your biggest ideas. Release the beast! No more tedious terrain work – just pure worldbuilding freedom! TurboRealm handles the heavy lifting, so you can focus on creating. Easily export your terrains to Unity, Godot, Unreal, or your favourite game engine. Use built-in assets or bring your own! Powered by a novel image-based workflow and time-tested procedural algorithms, TurboRealm generates worlds that feel – how do we put this? Just right. The future of world generation is here. The future is TurboRealm. Map. Deploy. Instantly.

30. Laura C21371683@mytudublin.ie

ToyHub - Toy Swap Platform

ToyHub is a mobile application designed to reduce toy waste and promote community sharing. Users can upload toys by analyzing their condition and environmental impact using image recognition. The app supports secure swapping, real-time chat, and gamified features like points and badges. With toy

reviews, favorites, and customizable profiles, ToyHub offers a fun and user-friendly way to give preloved toys a second life.

31. Lee Cox C21503599@mytudublin.ie

SmartShot XR

My project is designed for an XR headset to predict shot outcomes on a real pool/billiards table. It detects ball positions and cue orientation using image processing, then reconstructs the scene in a virtual environment using depth data from the headset's depth sensor. Based on the cue and ball alignment, it calculates shot trajectories and overlays the predicted ball paths onto the real table through the mixed reality view, providing real-time visual guidance to the user.

32. Liam Cobb C21322051@mytudublin.ie

Log+

A web app that allows users to log their workouts and add friends. Users will then be able to view their friends workout logs and challenge them to hit new targets. Other features also include calorie counting and bmi calculation.

33. Lilja O'Byrne C21385033@mytudublin.ie

Companion Planter

Companion Planter is a gardening software designed to help users plan their plots using companion planting principles. By promoting natural pest control and disease prevention, it reduces the need for chemical pesticides. Research shows that biological pest control reduces reliance on chemical measures, promoting a healthier, more sustainable gardening approach.

Users can create visual garden plans and utilize a built-in scheduler to manage crop cycles efficiently. The scheduler sends notifications for key gardening tasks, including sowing, transplanting, harvesting, and general care reminders.

Companion Planter is designed for gardeners of all skill levels, providing a comprehensive guide to growing fruits and vegetables successfully at home.

34. Lovely Fernandez c20305696@mytudublin.ie

AGA

AGA is an assistance tool for individuals seeking for guidance in structuring their day-to-day tasks. Keeping a well-balanced lifestyle.

35. Luke Kiernan C21411466@mytudublin.ie

Programmer

Programmer is a programming language learning app that allows users of all levels to learn programming languages, maintain their knowledge and make programming more approachable. Programmer uses Error focused revision and daily challenges to keep users progressing through their programming journey.

36. Martin Januska C21327411@mytudublin.ie

InboxTidy: NLP Email management

InboxTidy is an email management tool that utilises natural language processing. Instead of creating complex filters or manual sorting, users simply type commands like "archive all newsletters" or "delete promotional emails from last month," and the AI handles the rest, context aware with what emails and categories it can organise. Built as a web app with mobile support.

37. Máté Mikus c21379483@mytudublin.ie

Hangul Hover

Hangul Hover is a Chrome extension and a companion website designed to help users learn Korean efficiently and interactively. The extension replaces native subtitles on platforms like YouTube and Netflix with customizable dual subtitles, allowing users to save phrases to the website and click Korean words for instant translations and definitions. The website complements the extension by offering features such as saved vocabulary review, progress tracking, and interactive language-learning games. By combining principles of gamification, constructivism, and behaviourism, Hangul Hover aims to make Korean language learning intuitive, engaging, and tailored to the needs of each user.

38. Matthew Bradon c21380786@mytudublin.ie

Book Translator

Book Translator is a C++ standalone application that translates books from Japanese to English using an efficient local fine-tuned model. It supports translation for EPUB, PDF, and DOCX files. The application is supported on Windows and MacOS (Silicon).

39. Nazila Malekzadah c21414344@mytudublin.ie

DriveGuard

My project focuses on developing an integrated system that enhances safety and fleet management using machine learning, IoT technology, and various sensors. The system combines features such as drowsiness detection and comprehensive fleet management.

40. Nikka May Omo C21359691@mytudublin.ie

AcademiQ&A

AcademiQ&A focuses on creating a web application to promote academic collaboration and engagement within the university community. Existing platforms provide helpful answers, their broad audience and lack of academic focus make it challenging for students to find relevant learning information. This web application addresses this issue by offering a space to support the educational journey of students. The involvement of lecturers is one of its strength's as they can oversee and verify the responses to fact check the content shared.

41. Norbert Krupa c21518659@mytudublin.ie

DAYLI – Calendar with AI Chatbot Assistant

A web-based calendar application with an integrated AI chatbot assistant designed to enhance productivity. Built with a React frontend, Django backend, and a PostgreSQL database, the system supports user authentication, event scheduling, and task suggestions. The AI assistant, powered by GPT and developed through Botpress, helps users plan tasks, manage deadlines, and stay organized.

42. Oludemilade Aina C21725659@mytudublin.ie

Project smart learning

Help users manage their learning progress, tasks, and calendar events

43. Owen Jones C21377551@mytudublin.ie

JournEase

This project involves developing a comprehensive mobile application that centralizes essential travel resources into a single platform, offering users a streamlined experience for trip planning and destination exploration. The app integrates real-time information such as visa requirements, currency exchange rates, weather updates, and international news, ensuring travelers stay informed wherever they go. The project delivers a fully functional mobile application with an intuitive user interface, ready for deployment. It aims to simplify travel planning by providing a one-stop solution that saves time, reduces the need for multiple apps, and enhances the overall travel experience.

44. Patrisha Mauhay c21339643@mytudublin.ie

GreenThumb

GreenThumb is an IoT-based smart plant care management system designed to automate plant irrigation and monitoring, ensuring optimal plant health with minimal effort. The project aims to provide an efficient, user-friendly solution that integrates an ESP32 microcontroller, soil moisture sensors, and a solenoid valve for automated watering. A React Native mobile app allows users to monitor plants, receive alerts, and control irrigation. Key features include real-time sensor data, automated watering schedules, push notifications, voice integration, and a machine learning-powered water calculator, making plant care more efficient and accessible.

45. Paul Murnane c21359216@mytudublin.ie

Citizens Information RAG Bot

This project built a RAG chat bot for use within the citizensinformation website. Users can send in their query such as “where do I find information about the pension scheme” and the bot will generate a response that answers the question succinctly and provides a clickable link which goes to the page that the information is located on.

46. Prabhjeet Bissora C21412282@mytudublin.ie

Navigo

Navigo is a mapping web application that acts as a journey planner for a user to input two addresses, and then get a full itinerary that includes flights to and from the nearest airports of the startpoints and endpoints

47. Rahul d20128756@mytudublin.ie

Network Intrusion Detection System

Network integrity faces serious risks from cybersecurity threats which makes strong defense strategies essential. This project develops a Network Intrusion Detection and Prevention System (NIDPS) which implements a Machine Learning model to recognize and stop unauthorized access attempts instantly in real-time. Through the use of machine learning detection methods this project achieves a proactive and dependable cybersecurity solution that strengthens defenses against developing cyber threats.

48. Ritika Gupta C21368541@mytudublin.ie

Elderly Connect

Elderly Connect is a user-friendly web application developed to help elderly individuals overcome loneliness by connecting them with others who share similar interests. The platform enables social interaction through one-on-one chats and group discussions. Users can send, edit, delete, and save messages. Interest-based matching algorithm helps foster meaningful conversations around common hobbies like reading, painting, knitting, and bingo.

49. Roxana Pohodnicaru C21446942@mytudublin.ie

SecureBuddy

A file scanning tool intended to educate users on various malicious malwares and to promote file safety

50. Ryan McLoughlin C21431604@mytudublin.ie

Low-Cost Automated Astro-Photography System

This is to be a system that is designed to allow remote astronomical observations with minimal user intervention. It includes a telescope mounted on a motorized platform, a high-resolution camera for capturing images, and a program on the user's machine for controlling the system. The system is planned to be capable of receiving a list of celestial targets and autonomously scheduling, locating and imaging them without requiring continuous user input. The entire setup can be managed remotely over a network

51. Sadhbh C20365601@mytudublin.ie

Home Security Robot

The robot watches over the house with a camera and sensors and shares updates users through a friendly web interface.

52. Samuel c21448272@mytudublin.ie

Find My Photographer

The platform enables users to search for photographers, view their portfolios, read client reviews, and book photography sessions seamlessly. Photographers can create detailed profiles, showcase their work and manage bookings through an intuitive interface.

53. Sarah Barron c21415904@mytudublin.ie

Cara: Friendship and Volunteer Support for Seniors

My proposed idea is a web application designed to help people over 65 combat loneliness. The app provides a platform for users to find meaningful friendships, access volunteer support, and discover local events.

54. Sean Culleton C21397083@mytudublin.ie

BeWell

BeWell is a passion project born from the idea that wellness shouldn't be complicated. I've created a digital health companion that brings together all aspects of wellbeing in one intuitive platform. What makes BeWell special is how elements interconnect. Your nutrition affects your workouts, your physical activity impacts your mood, and your mental state influences your food choices. The dashboard brings these connections to life through intuitive charts and progress timelines. Built with security in mind, BeWell keeps your health data private while offering a seamless experience between the React frontend and Node.js/MongoDB backend. BeWell isn't just about tracking numbers—it's about understanding the complete picture of your health journey and supporting positive change in all aspects of your wellbeing.

55. Sean Kenny c21443404@mytudublin.ie

Club Lotto Machine

A Lotto Machine that allows GAA, Soccer, Rugby clubs generate lotto ticket sales through NFC payments using a CrowPi Kit. Predeceasing old methods such as envelopes.

56. Shahida Mohammed-Ahmed c21333116@mytudublin.ie

Alignify

My web-app is a period tracker that aims to function as a productivity tool that will allow users to enter tasks, and will break it down for them according to what phase in their menstrual cycle they are. This makes it easier to manage tasks when eg the user is in her luteal phase and she is experiencing brain fog.

57. Stephanie Ogu D22126511@mytudublin.ie

Personal Budgeting Application

This project aims to develop a financial management application that consolidates multiple bank accounts into a single platform. The application provides users with a streamlined experience to track expenses, categorize spending, create and manage budget

58. Thomas Crean C21416014@mytudublin.ie

EventConnect - Socially Driven Event Networking Platform

The primary function of this platform is to allow users to connect with friends, acquaintances, or entirely new people interested in the same events. When a user is interested in an event, they will be able to search for it on the platform. There will also be an option to see events recommend to the user based on their location or interest. Upon finding an event, the user will be able to see a list of other attendees who they are friends with who have shown interest. The platform will provide options to reconnect with old friends attending the same event, by addressing a prevalent issue where individuals may miss events simply because they don't realize that friends were also interested in attending that platform fosters better social planning and reduces missed opportunities, addressing gaps left by existing event-focused apps.

59. Tom Keane C21371216@mytudublin.ie

Starting11: Community-Powered Football Lineup Insights & Predictions

A crowdsourced football prediction platform that combines collective user insights to produce accurate, real-time starting lineup forecasts for football matches. The platform clearly displays essential lineup information and formation visuals. It also provides advanced analytics, including positional analysis and long-term trends.

60. Vikas Mackevicius c21710971@mytudublin.ie

CarbonSplitGo (Car-Pooling)

CarbonSplitGo is an iOS application aimed towards people who work in various organisations and struggle with daily commute. This application would allow people who share the same workplace to have an easier and less awkward way of organising shared trips, which would save their time, lower the number of cars on the road, thus contributing towards a better environment.

61. Vilim Mikic c21737525@mytudublin.ie

SchedulrAI

SchedulrAI is a personal scheduling management system designed specifically for small business owners. Its primary objective is to enhance and expedite the organisation of business operations for small business owners, all while incurring no additional costs. SchedulrAI utilises locally hosted large language models to estimate the time requirements for tasks accurately and subsequently automate the scheduling process. It is compatible with even older devices that have limited resources.

62. William Moore c21437002@mytudublin.ie

Using Virtual Reality to Enhance Shopping Experience

Using a Mixed Reality application to assist people while shopping. Using full colour passthrough cameras available on devices like the Meta Quest 3, the application allows users to scan product barcodes by looking at them, showing information gotten from it to display to the user with key information like price

date and manufacturer, and possibly other nutritional values and dietary preferences/restrictions.

63. Yinka John Adebisin C20426814@mytudublin.ie

EasyExchangeConnect

This project is a web application made to make the erasmus and exchange programme easier, for both students and university alumni. It incorporates a self-preparation guide, containing all necessary documents needed to be filled and steps to be taken for a secure transition on the programme. It contains the details of all Technological University of Dublin-partnered universities all in one centralised location, saving time in searching the internet for information. Designed to encourage participation, an application form is built in to organise application for the students and the admins. With a touch of Machine Learning and Artificial Intelligence, this project can revolutionise the process of the International programme.

64. Zoe Fabre-Anderson d22125460@mytudublin.ie

A Comparison of Web Accessibility Checkers

This project aims to compare a variety of website accessibility checkers on different webpages categories. The result of this testing is to create a new standard/protocol that can be referred to by web developers/businesses/companies. This new protocol will then be implemented into a rudimentary web application, such that a user can have it check and rate their websites accessibility.

65. Team Terric c23739895@mytudublin.ie

Anterric is the winner of Games Fleadh 2025.

Anterric is a story-driven dungeon crawler with elements of action-adventure, exploration, and resource gathering. Players take on the role of a newly crowned ant queen, uncovering a conspiracy about termites, while battling mind-controlled insects and managing the survival of their colony.