

EMPLOYMENT

Software Development Intern	Global Aerospace	Summer 2024, Summer 2023
Banks Project		
<ul style="list-style-type: none">Created an interface to input and normalize unformatted insurance policy data sent by banks, storing it in an internal database using Visual Basic and SQL.Created automated, interactive data analysis reports using PowerBI, integrated with the internal database via SQL, allowing for data projections, filtering, and insurance policy comparisons.		

EDUCATION

Cardiff	Cardiff University	September 2021 - September 2025
<ul style="list-style-type: none">MSc in Artificial Intelligence (Expected) (September 2024 – September 2025).<ul style="list-style-type: none">Modules: Knowledge Representation; Automated Reasoning; Principles of Machine Learning; Computer Vision; Natural Language Processing.BSc in Computer Science (September 2021 – June 2024) - First-Class Honours (1:1)<ul style="list-style-type: none">Modules: Web Applications; Object Oriented Programming; Group Project; Data Processing and Visualisation; Computational Mathematics; Database Systems; Scientific Computing; Combinatorial Optimisation.		

PROJECTS

- Multilayer Perceptron for Predicting Mango Dry Matter Content from NIRS Data** (2025) - A neural network that uses Near Infra-Red Spectroscopy data to predict the dry matter content of mangos.
 - Developed without the assistance of ML libraries and implemented entirely using **NumPy** with linear algebra to gain a better understanding of basic machine learning concepts such as bias, variance, and backpropagation.
- NLP Fact Checker** (2024) - A system written in **Python** and version controlled in **Git** that uses **NLP** to automatically retrieve evidence from an **Elasticsearch** database for user-made statements and assess truthfulness.
 - Trained language models with **HuggingFace** to assess the relevancy of passages.
 - Ported the final system into a web-application using **Flask**, **HTML**, **CSS**, and **JavaScript**.
 - Achieved a final mark of 84%.
- AIPlaylistNameGen.com** (2023) - A website that uses **Apple Music's API** combined with **OpenAI's API** to generate curated playlist names for Apple Music playlists based on the songs inside.
 - Backend uses **Flask** framework written in **Python**.
 - Created custom frontend using **HTML**, **CSS**, and pure **JavaScript**
- Tool Share Cardiff** (2022) - A **Flask** website group project that allows Cardiff community members to list and rent tools with a deposit payment system.
 - Implemented payment system using **Stripe API** and interactive map view using **Google Maps API**.
 - Managed users, tools, messages, reviews, reports, orders, and disputes using an **SQLite** database.
 - Effectively used **Git** branching strategies for version control among team.
- theobaur.co.uk** (2021 - Present) - My personal portfolio website.
 - Configured VPS with **Apache2** for hosting.
 - Designed custom frontend with **HTML**, **CSS**, and pure **JavaScript**.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, Visual Basic
- Tools: HTML, CSS, Git, Flask, SQLite, Power BI, RESTful APIs

AWARDS

- Awarded academic scholarships for both Bachelor's and Master's degrees at Cardiff University.
- Prize winner of the "100 Big Ideas" competition for a software start-up idea.