

Wan Muhammad Faiz Luqman Bin Wan Azman

+44 07512 684799 | faizluqman7@gmail.com | faizluqman.my | linkedin.com/in/faizluqman | github.com/faizluqman7

EDUCATION

The University of Edinburgh

Edinburgh, United Kingdom

Bachelors of Science (Honours) in Computer Science

September 2022 – May 2026

- *Courses:* Algorithms and Data Structures, Software Engineering, Object-Oriented Programming, Data Science, Computer Systems, Computer Networks, Computer Security, Natural Language Processing, Software Testing
- *Predicted Results:* On track for **First-Class Honours**

PROFESSIONAL EXPERIENCE

Keysight Technologies

Penang, Malaysia

Software Engineering Intern

June 2024 – September 2024

- Designed, developed and deployed a **web-based request tracking system** with an approval workflow, which handles over **100+** weekly requests for approximately **20** Knowledge Engineers company-wide
- Implemented an automated email notification feature to notify requestors of the real-time request progress
- Automated the process of batch uploading and processing of product items, reducing processing times by **99%**
- Developed an **SQL Code Generator tool** using **VBA** to enable non-technical staff to retrieve order information

PROJECTS

CardGPT - AI-Powered Card Generator Tool | *React, Python, Flask*

Jan 2025 – Mar 2025

- Developed a full-stack web app using **React** and **Flask** to generate printable cards for a card matching game
- Utilized **LLMs** such as the **Google Gemini 1.5-turbo API** to generate custom **AI-generated** word pairs for the cards, retrieving consistent results in **under 1.5 seconds**

PizzaDronz - Drone Delivery System | *Java, Spring Boot, Maven, Docker*

Oct 2024 – Jan 2025

- Developed a **REST API** in **Spring Boot** to validate orders and calculate flight paths for a drone delivery system
- Implemented the **A* search algorithm** to calculate optimal flight paths within a **2km²** area, consistently returning results in under **150ms** with caching

NASA Satellite Observer Web App | *HTML, CSS, JavaScript, Node.js, Python*

Aug 2024 – Oct 2024

- Built a web app using **HTML, CSS, JS and Node.js** to automate real-time Landsat satellite overpass notifications via the **SendGrid API**, enhancing user engagement with timely updates
- Integrated a **Google Maps API**-powered user interface, enabling precise and interactive location selection, enhancing the overall user experience

Planetary Orbit Simulator | *Python, NumPy, Matplotlib*

Jan 2023 – May 2023

- Developed a planetary orbit simulator using **Python** with **Matplotlib**, visualizing accurate orbital mechanics
- Achieved **99.5%** accuracy in simulating planetary orbit periods, with energy conservation drift limited to under **0.5%** for over **100** simulated years using the **Beeman integration** method

MyBP - iOS Health Tracker App | *Swift, SwiftUI, Apple Core Data*

Nov 2021 – Jan 2022

- Created a blood pressure tracking app using **Swift** and **SwiftUI**, enabling users to monitor their health metrics
- Integrated **Apple Core Data** for local data persistence, ensuring seamless tracking and storage of readings

LEADERSHIP EXPERIENCE

Hack The Burgh X Hackathon, CompSoc Edinburgh

Edinburgh, United Kingdom

Event Volunteer

March 2024

- Coordinated the efficient registration process of **over 200+** hackathon participants, ensuring smooth event flow

MSTC 23' Technology Conference, Young Malaysian Engineers

Kuala Lumpur, Malaysia

Events and Projects Officer

May 2023 – Aug 2023

- Handled the logistics for the Malaysian Students' Technology Conference, featuring talks by top tech companies

TECHNICAL SKILLS

Languages: Java, Python, C, Swift, JavaScript, TypeScript, Haskell, MIPS, Visual Basic (VBA/VB), SQL

Frameworks: Flask, Node.js, Spring Boot, Bootstrap, Apple Core Data, JUnit, MediaPlayer

Developer Tools: GitHub, Linux, Docker, Postman, Microsoft Power Platform

Libraries: React, pandas, NumPy, Matplotlib, Seaborn, Basemap, scikit-learn, OpenCV, Pytesseract