Wan Muhammad Faiz Luqman Bin Wan Azman

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EDUCATION

The University of Edinburgh — Edinburgh, United Kingdom
Bachelors of Science (Honours) in Computer Science — *September 2022 – May 2026*
- *Relevant Courses*: Algorithms and Data Structures, Software Engineering, Data Science, Computer Systems, Object-Oriented Programming, Computer Security, Natural Language Processing, Software Testing
- *Results*: Cumulative Average - **75.1%** (On track for **First-Class**)

PROFESSIONAL EXPERIENCE

Keysight Technologies — Penang, Malaysia
Engineering Intern (Technology) — *June 2024 – September 2024*
- Designed, developed and deployed a web-based request tracking system with an approval workflow used by over 20 Knowledge Engineers, resulting in enhanced efficiency of Keysight's product line management processes
- 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 to a database, leading to approximately 99% time savings for 100 product item uploads
- Developed an SQL Generator tool using VBA to obtain order details and product information from Keysight's internal database

PROJECTS

NASA Satellite Observer Web App | *HTML, CSS, JavaScript, Node.js, Python* — Aug 2024 – Oct 2024
- A user-friendly web application that allowed users to define target locations and receive notifications for Landsat satellite overpasses, in addition to obtaining satellite data such as Surface Reflectance (SR) and image captures
- Utilized Node.js and SendGrid API to automate real-time Landsat overpass notifications for users
- Integrated Google Maps API with location search to allow precise and interactive target location selection by users

Hand-Tracked Mouse Controller | *Python, OpenCV, MediaPipe* — Feb 2024 – Feb 2024
- An accessibility tool built to control mouse movements and clicks using only hand gestures and movements
- Utilized OpenCV and MediaPipe to implement the machine learning and computer vision back-end
- Achieved a 96% true positive rate for total expected mouse clicks

Virtual Memory and Cache Simulator | *C, Linux* — Oct 2023 – Nov 2023
- Implemented a robust cache simulator in C to simulate memory accesses within the CPU architecture of computers
- Modelled the interactions between the cache, Translation Lookaside Buffer (TLB) and virtual memory subsystems
- Employed a Least Recently Used (LRU) eviction policy to manage cache entries and virtual pages

MyBP iOS App | *Swift, SwiftUI, Apple Core Data* — Nov 2021 – Jan 2022
- MyBP is a blood pressure tracking app, built to monitor and track the user's blood pressure measurements
- Leveraged the Swift programming language alongside the SwiftUI framework for native iOS development
- Utilized the Apple Core Data persistence framework for local data storage of blood pressure 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 and ensured the smooth flow of events

MSTC 23' Technology Conference, Young Malaysian Engineers — Kuala Lumpur, Malaysia
Events and Projects Officer — *May 2023 – Aug 2023*
- Handled the logistics and venue coordination for the Malaysian Students' Technology Conference 2023, featuring talks by top industry pioneers

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, Haskell, MIPS Assembly, Swift, Visual Basic (VBA/VB), SQL
Frameworks/Environments: Node.js, Spring Boot, Bootstrap, Apple Core Data, JUnit, MediaPipe
Developer Tools: GitHub, Linux, Docker, Postman, Microsoft Power Platform
Libraries: pandas, NumPy, Matplotlib, Seaborn, Basemap, scikit-learn, OpenCV