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 — *Sept. 2022 – May 2026*
- *Relevant Courses*: Algorithms and Data Structures, Software Engineering, Data Science, Computer Systems, Object-Oriented Programming, Computer Security, Natural Language Processing, Reasoning and Agents
- *Results*: Cumulative Average - **75.1%** (On track for **First-Class**)

PROFESSIONAL EXPERIENCE

Keysight Technologies — June 2024 – September 2024
Tech Engineering Intern — *Penang, Malaysia*
- Designed, developed and deployed a web-based request tracking system with an approval workflow, which lead to enhanced efficiency of Keysight's product line management processes
- Enhanced communication processes by developing an automated email sending feature with HTML5 scripting
- Added functionality for batch uploading and processing of product items using an efficient string parsing algorithm, leading to approximately 99% time savings for 100 product item uploads
- Developed an SQL Generator tool using VBA to obtain orders details and product information from Keysight's internal database

PROJECTS

MyBP iOS App | *Swift, SwiftUI, Apple Core Data* — Nov 2021 – Present
- MyBP is a blood pressure tracking app, built to monitor and track its 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

Hand-Tracked Mouse Controller | *Python, OpenCV, MediaPipe* — Feb 2024 – Feb 2024
- An interactive interface built to control mouse movements and clicks using hand gestures and movements
- Utilized machine learning and computer vision techniques for real-time hand tracking
- Implemented in Python using the OpenCV library and the MediaPipe framework

University Study Companion Web App | *HTML, CSS, JavaScript, GitHub Pages* — Feb 2024 – Feb 2024
- A comprehensive suite of study tools such as study group finders, to-do lists and timers, built using HTML, CSS, and JavaScript, hosted on GitHub Pages
- Built during the Ada Hack Hackathon 2024, with the aim of potentially benefitting over 1000 members of the student community.

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

LEADERSHIP EXPERIENCE

Hack The Burgh X Hackathon, CompSoc Edinburgh — Mar 2024 – Mar 2024
Event Volunteer — *Edinburgh, United Kingdom*
- Coordinated the efficient registration process of over 200+ hackathon participants, as well as ensuring the smooth flow of events

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

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, Haskell, MIPS Assembly, Swift, Visual Basic (VBA/VB), SQL
Frameworks: Bootstrap, Apple Core Data, JUnit, MediaPipe
Developer Tools: GitHub, VS Code, PyCharm, IntelliJ, CLion, Linux, Terminal, Bash, SSH, Microsoft Power Platform
Libraries: pandas, NumPy, Matplotlib, Seaborn, Basemap, scikit-learn, OpenCV