

# Wan Muhammad Faiz Luqman Bin Wan Azman

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## PROFILE

Current second year computer science student at The University of Edinburgh. Highly enthusiastic in the area of software development and artificial intelligence. Experienced in working with various tech stacks through academic coursework and personal projects. Currently seeking opportunities in tech to gain insightful experiences and contribute to impactful projects.

## EDUCATION

### BSC (HONS) COMPUTER SCIENCE, THE UNIVERSITY OF EDINBURGH

SEPT 2022 TO MAY 2026

Relevant Courses: Algorithms and Data Structures, Object-Oriented Programming, Discrete Math and Probability, Linear Algebra, Software Engineering, Data Science, Computer Systems, Functional Programming, Computational Logic

Results: Year 1 - **79.83% Average** (On track for **First-Class**)

### A-LEVELS, TAYLOR'S COLLEGE

JAN 2020 TO JUNE 2021

Results: Mathematics (A\*), Computer Science (A\*), Physics (A\*)

Recipient of the Taylor's Distinction Award Scholarship and the Top Achiever's Award

## PROJECTS

### **Hand Tracking Gesture-Controlled Computer Interface**

FEB 2024

- Developed an interface to interpret live hand gestures captured from the user's webcam for accessible mouse control.
- Utilized computer vision techniques for real-time hand tracking using OpenCV and MediaPipe in Python.

Skills Demonstrated: Python Programming, Machine Learning, Computer Vision, Human-Computer Interaction

### **University Study Companion Web Application**

FEB 2024

- A comprehensive study platform built using HTML, CSS and JavaScript as part of the Ada Hack Hackathon 2024.
- Enhanced the productivity of university students with features such as study group finders, to-do lists and study timers.

Skills Demonstrated: HTML, CSS, JavaScript, Git Version Control, Hackathon Experience, Collaborative Software Development

### **Virtual Memory and Cache Simulator**

NOV 2023

- Implemented a robust C program 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.

Skills Demonstrated: C Programming, Low-Level Systems, Computer Architecture, Linux, Pair Programming

### **iOS Health Tracker Mobile Application**

NOV 2021

- Prototyped a blood pressure tracking app, which enabled users to monitor and record their readings seamlessly.
- Leveraged Swift and SwiftUI for native iOS development, alongside Apple Core Data for persistent data storage.

Skills Demonstrated: Swift Programming, UI/UX Design, Persistent Frameworks and Databases

## EXTRACURRICULAR ACTIVITIES

### **MSTC '23 Events and Projects Officer, Young Malaysian Engineers**

MAY 2023 TO AUG 2023

Handled logistics and venue coordination for the Malaysian Students' Tech Conference 2023, featuring talks by industry pioneers.

### **Co-Director of Marketing and Design, Taylor's College Agents of Technology Club**

JUNE 2020 TO DEC 2020

Organized, managed and conducted interactive programming workshops and technology events for over 100+ university students.

### **Student Representative, Taylor's College Student-Staff Consultative Committee**

JAN 2020 TO JUNE 2021

Gathered constructive feedback regarding student welfare from my cohort to be addressed to the college's higher management.

## SKILLS & KNOWLEDGE

- Languages Spoken: English, Bahasa Melayu (Malay)
- Programming Languages: Python, Java, Haskell, MIPS Assembly, C, Swift, HTML, JavaScript, CSS, Visual Basic
- Libraries: Pandas, Matplotlib, NumPy, Seaborn, Basemap, OpenCV
- Tools and Frameworks: Jupyter Notebooks, REST APIs, SwiftUI, Apple Core Data, Bootstrap, MediaPipe