

Faw M. K. Ali

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EDUCATION

- **Monash University Malaysia** Subang Jaya, MY
Bachelor of Computer Science in Data Science, School of Information Technology *Feb 2022 - Present*
 - **Expected Graduation:** March 2025
 - **Cumulative GPA:** 3.700/4.000
 - **Relevant Coursework:** Algorithms & Data Structures, Machine Learning, Data Science Statistics, Database Design and Management, UI/UX, Probability & Discrete Mathematics
- **Sunway College** Subang Jaya, MY
Monash University Foundation Year (MUFY) *Jan 2021 - Dec 2021*
 - **MUFY Score:** 87.125/100.000
 - **Units Taken:** English, Mathematics, Physics and Information & Communication Technology
 - **Scholarships:** Jeffrey Cheah Entrance Scholarship

SKILLS

- **Programming Languages:** Python, R, JavaScript, TypeScript, Go, Bash
- **Web Development & Frameworks:** HTML, CSS, Django, React
- **Databases:** SQL, Oracle, MongoDB
- **Big Data & Machine Learning:** Python (pandas, NumPy, TensorFlow, OpenCV, Matplotlib)
- **Data Science & Miscellaneous Technologies:** Data Science Pipeline (cleansing, wrangling, integration, visualisation, modelling, interpretation), Blockchain, OOP, Excel, Tableau, Vega-Lite, Agile, Git, Markdown, L^AT_EX
- **Design, Photo & Video:** Figma, Adobe - Photoshop, Lightroom, Illustrator, Premiere Pro & After Effects
- **Language Fluency:** English - C2 Proficiency, Conversational Proficiency in Malay

PROJECTS

- **Monash Coding League Semester 1 and 2 2023** ↗
Finalist *March 2023 - September 2023*
 - Finalist at a highly competitive hackathon, collaboratively solving problems akin to LeetCode; demonstrated programming under pressure whilst delivering efficient solutions.
 - Placed 6th and 8th out of 56 and 48 competing teams (of 2) respectively.
- **Kitahack 2023 (Google's Solution Challenge) Participant** ↗
Team Lead *February 2023 - March 2023*
 - Pioneered the development of "Vital Vision", a prototype health-centric mobile app that harnesses photoplethysmography (PPG) to monitor heart rates via smartphone cameras, aiming to enhance healthcare accessibility in remote areas.
 - Conducted comprehensive research and maintained detailed documentation, subsequently presenting and garnering team support for the innovative solution, positioning it as a potential game-changer in remote healthcare solutions.
- **Sudoku Solver** ↗
Lead Developer
 - Created a Sudoku Solver using backtracking, serving as an educational tool for a junior developer which led to a 12% improvement in their algorithmic proficiency.
 - Incorporated a GUI in pygame for the solver, providing real-time complexity analysis and visualisation to enhance user interaction and comprehension.

- **Maze Visualisation** ↗

Lead Developer

- Constructed a maze visualisation platform that showcased fundamental graph algorithms such as BFS, DFS, Dijkstra and A*.
- Employed pygame to build an immersive GUI for the maze, offering real-time algorithmic visualisations and drawing using Bresenham's line algorithm that significantly amplified user engagement and comprehension.

- **fawchain** ↗

Lead Developer

- Designed a minimalistic blockchain in Go, employing SHA-256 cryptography for secure hashing.
- Implemented dynamic pricing algorithm within the blockchain, adjusting transaction value based on cryptographic seed and time.

- **Formula 1 Image Classification** ↗

Lead Developer

- Developed an image classification pipeline using TensorFlow and NumPy, integrating preprocessing, augmentation, and model training phases.
- Trained a deep learning neural network model on eight distinct classifications, leveraging NumPy for data manipulation and achieving an average accuracy of 89%.

- **Formula 1 Data Visualisation** ↗

Individual Assignment Project

- Designed a data visualisation dashboard created using Tableau, integrating and wrangling raw telemetry data from Excel using pandas.
- Efficiently transformed and visualized complex datasets as well as utilising Beautiful Soup 4 to enhance user comprehension of team and driver performance.

- **Alcohol Tracker** ↗

Group Assignment Project

- Spearheaded the design of a UI/UX prototype in Figma for an alcohol tracker, targeting rehabilitation and mental health improvement for alcoholics; ensured a user-centric approach aligning with best practices.
- Incorporated Schneiderman's Eight Golden Rules of Interface Design to guarantee enhanced usability, fostering intuitive interactions, consistency, and feedback loops, thereby promoting sustained user engagement and behavior modification.

18 August 2023

Dear Sir/Madam,

STUDENT INDUSTRIAL PLACEMENT/INTERNSHIP RECOMMENDATION LETTER

This letter serves to introduce the following student who is currently enrolled in Monash University Malaysia. The industrial placement/internship provides students with the opportunity to integrate theory with practice, and to gain first-hand experience in working in the area of specialty in which they want to pursue after graduation.

The following student is applying to your organisation:

Name of student	Course Name
KHURRAM MUHAMMAD FAWWAD ALI	BACHELOR OF COMPUTER SCIENCE IN DATA SCIENCE

Monash University endorses the requirement, for an obligatory period of approved work experience within the related field of study, before their computer science degree can be conferred. For Monash University that period of time is at least 12 weeks and it is usually undertaken during the 'summer' vacation (mid-November to the end of February).

The University has purchased a **Student Group Personal Accident policy** for all its enrolled students. We note that all organisations have a duty of care for all students who are engaged as trainees/interns. For international students, we advise that the Malaysian law and regulations (including visa conditions) permit international students to undertake work experience as part of their course of study.

Please note that the relevant regulations place various constraints on international students taking on paid employment. Organisations that provide for industrial placements/internships should be cognisant of and adhere to relevant regulations and guidelines. This letter does not constitute approval for paid employment of any student. Should you require further advice on this matter, please contact - Registrar and Chief Governance Officer, Monash University Malaysia (email: registrar@monash.edu)

I would be grateful if you could email a copy of the offer letters for each student to mum-cmo.sit@monash.edu should industrial placements/internships be offered to the students. I trust that your organisation will be able to provide appropriate and substantial work experience for the student(s) above. I hope that your Organisation and the student will find the time spent together to be beneficial and productive.

Yours sincerely,

mei kuan LIM

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