

# Amirul Azizol

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## EXPERIENCE

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### Wavelet Solutions

#### Freelance Software Engineer

July 2024 - Dec 2024

- Continuing the same roles and responsibilities during the remainder of my studies (remote)

#### Software Developer Intern

Jan. 2024 – June 2024

- Developed new frontend features and fixed bugs in **Flutter** + **Dart** (mobile), and **Angular** + **NGRX** (web). Utilized **AWS** for scaling and deployment of the applications.
- Engineered and maintained various CRUD **RESTful APIs** in order to facilitate frontend features and bug fixes. Enhanced the coordination of API calls between in-house microservices within a **Java** environment.
- Worked on a data migration task for a major client to migrate from an on-premise **MySQL** database to a cloud **PostgreSQL** database hosted on cloud (**AWS**). Built and ran multiple **ETL pipelines** and helped to conduct UAT.

### Monash University - Teaching Assistant

Feb. 2023 – Dec 2024

- Class assistant for FIT2014: **Theory of computation** during 2024
- PASS Tutor for FIT1045: **Introduction to programming** during 2023

### Western Digital - Firmware Engineer Intern

Nov. 2023 – Jan. 2024

- Designed, developed, tested, integrated, and maintained **eHDD firmware** through **unit testing**, **continuous integration**, and **agile methodologies**.
- Worked with the Host Interface scrum team for firmware development, where I helped to lower the team's **rolling average of bugs per sprint** by **21%**.
- Fixed multiple high priority bugs for major **Fortune 500 companies**.

## EDUCATION

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### Monash University - Bachelor of Computer Science

Feb. 2022 – Jan. 2025

- CGPA: 3.9** | WAM: 87.1
- Majoring in **advanced computer science**, with a minor in **cybersecurity**
- Recipient of Monash High Achiever Award (**top 1% of cohort**)

## TECHNICAL SKILLS

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**Languages:** Python, Java, Javascript, Typescript, C / C++, SQL, HTML/CSS, R

**Technologies:** Angular, React.js, Node.js, Next.js, Flutter, Spring Boot, Jenkins, AWS, PostgreSQL, LiquiBase, MongoDB

**Tools:** Git, Docker, VS Code, Postman, GitHub, BitBucket, Jira, Tableau

**Spoken Languages:** Native fluency in English and Bahasa Melayu

## PROJECTS

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**RAG for Medical VQA** (Research Project) - A custom multimodal **LLM** powered system tailored to answering medical questions. Designed with **Streamlit**, utilizing the **Gemini API** and the **Langchain** framework.

**RxNet** - A prescription management tool using **React.js** and **Solana**, designed to streamline processes, improve transparency, and reduce fraud and drug abuse.

**DocGPT** - An **LLM**-powered healthcare chatbot written in **Python** with the **Streamlit** library, offering features such as chat history, speech-to-text, **image analysis**, and assistance in locating nearby clinics.

**Ren** - (For Kitahack 2024) A volunteer cleaning app built with **Flutter** and **Dart**, inspired by poor waste management practices

in society, designed to mitigate pollution and other climate related risks.

**GApps eInvoicing Script** - A simple and efficient **Javascript** solution that automates the generation of PDF invoices from Google Sheets, designed to help small and medium-sized businesses in Malaysia comply with eInvoicing regulations.

**Vital Vision** - (For Kitahack 2023) A health-focused smartphone concept design that uses **image processing** (photoplethysmography) to detect the user's heart rate without special equipment.

**Monash Coding League** - Placed 3rd in a competitive programming contest involving 100+ teams.

#### Minor Projects:

- **Discord Bot** - Discord bot with various commands, written in **Javascript** and using **Node.js**.
- **Scrum Planner** - CRUD web app using pure **HTML / CSS**, a scrum planner for managing tasks, members, and user stories.
- **Bookstore App** - CRUD mobile app to manage books in a library, powered by **Java** and **Firestore**.
- **Tetris Game** - Tetris game built with **Typescript**, **RxJS**, and functional programming techniques.

## EXTRACURRICULARS

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### Monash Google Student Developers Club - Secretary

Aug. 2023 – Aug. 2024

- Member of the 5-person executive committee overseeing a core team of 19 and hundreds of club members
- Proposed events for Monash's C&S division to approve and directed committee meetings
- Planned and participated in a university-sponsored trip to Google's APAQ HQ in Singapore

### Monash Robotics Club - External Relations Officer

Aug. 2023 – Nov. 2024

- Took part in an initiative to produce and sell 3D prints, raising nearly RM1000 for charity
- Assisted in organizing an industry talk event with a guest speaker from ABB Malaysia
- In charge of pitching to sponsors for our robotics team

#### Other:

- Founding Secretary of Monash Tennis Club (150+ members)
- Treasurer of Monash Esports Club
- Public Relations Officer of Monash Career Peer
- Editorial for Monash Political Action Committee
- Esports caster for Monash Cup 2022/2023