

# Amirul Azizol

(+60) 12-483 2940 | [amirulazizol.dev@gmail.com](mailto:amirulazizol.dev@gmail.com) | [linkedin.com/in/amirulazizol](https://linkedin.com/in/amirulazizol) | [github.com/brightcosmo](https://github.com/brightcosmo) | [amirul.dev](https://amirul.dev)

## EDUCATION

### Monash University

Subang Jaya, Malaysia

*Bachelor of Computer Science, Major in Algorithms and Software, Minor in Cybersecurity* Feb. 2022 – Mar. 2025

- GPA: 3.92 — WAM: 87.1 — Recipient of Monash High Achiever Award (top 1% of cohort)
- **Selected Coursework:** Data Structures and Algorithms, Object Oriented Programming, Cybersecurity, Functional Programming, Databases, Parallel Computing

## EXPERIENCE

### TransPerfect

Singapore

*Machine Learning Engineer*

Apr. 2025 – Present

- Created, categorized, audited, and optimized lexical data for the Malay language.
- Developed natural language processing models tailored to the Malay language.

### Wavelet Solutions

Subang Jaya, Malaysia

*Software Engineer (Internship / Freelance)*

Jan. 2024 – Dec. 2024

- Interned from January to July, and worked on a remote freelance basis from July to December.
- Built frontend features and resolved bugs in Flutter (mobile) and Angular + NGRX (web).
- Utilized AWS services such as EC2, S3, RDS, and Lambda to efficiently scale and deploy applications.
- Engineered and maintained various CRUD RESTful APIs for frontend features and bug fixes.
- Executed a major data migration project from MySQL to PostgreSQL; built and ran multiple ETL pipelines.

### Monash University

Subang Jaya, Malaysia

*Teaching Assistant*

Feb. 2023 – Dec. 2024

- Teaching Assistant for FIT2014: Theory of Computation (2024).
- Tutor for FIT1045: Introduction to Programming (2023).

### Western Digital

Subang Jaya, Malaysia

*Firmware Engineer (Internship)*

Nov. 2023 – Jan. 2024

- Developed and maintained eHDD firmware through unit testing, continuous integration, and agile methodologies.
- Worked in the Host Interface team, where I reduced the average number of bugs per sprint by 21%.
- Resolved multiple high-priority bugs for major Fortune 500 companies.

## PROJECTS

### Final Year Research Project | *Computer Vision, Langchain, Transformers*

July 2024 – Jan. 2025

- A custom multimodal LLM for answering medical and forensics questions with retrieval-augmented generation.
- Fine-tuned the mPLUG-Owl3 model with a hybrid retrieval mechanism (cosine similarity and full-text matching).
- For RAG uploads, uses a custom chunking algorithm with Gemini for contextualizing and summarizing texts.

### RxNet | *React.js, Solana*

July 2024 - Aug. 2024

- **Finalist at APU Devmatch 2024 and 6th place winner of Monash Hackfest 2024.**
- A blockchain-powered prescription management tool to streamline processes and reduce fraud.

### DocGPT | *Python, OpenAI*

June 2024 - July 2024

- A multimodal medical LLM, designed to improve healthcare accessibility and streamline patient triage processes.
- Includes integration with Google Maps API to display nearby clinics for patient convenience.

### Ren | *Flutter, Dart*

Dec. 2023 - Jan. 2024

- **Top 10 Finalist for Kitahack 2024.**
- A volunteer cleaning app inspired by poor waste management practices.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, Dart, Go, C/C++, SQL (Postgres), HTML/CSS, R

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

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

**Libraries:** Pandas, Numpy, Transformers, Langchain