

Moaaz Khamis

mouazkhamis@gmail.com • 011-3721-0528 • [LinkedIn](#) • [Github](#) • [Portfolio](#)

OVERVIEW

Passionate and hands-on software engineering student, currently a Software & Data Engineer Intern at Rotate Asia and Head of the Technology Department at UMISA, with strong experience leading technical projects and building full-stack web and mobile applications. Proven ability to architect systems, write clean code, and collaborate effectively within development teams. Open to opportunities and collaborations in software and data engineering.

EDUCATION

Universiti Malaya

Expected Graduation, March 2028

Bachelor in Computer Science (Software Engineering) | CGPA : 3.30/4.00

Relevant Courses: Object-Oriented Programming, Mobile Application Development, Data Structures, Algorithms, Machine Learning, Python For Scientific Programming, Network Technology Foundation, Databases, Software Modeling, Software Maintenance and Evolution, Web Programming.

TECHNICAL SKILLS

Languages & Frameworks: Java Programming, Python for Data Science, MySQL & SQL Queries, HTML, CSS, JavaScript, TypeScript, Dart, React.js, Next.js, Angular, Flutter, FastAPI, Node.js, PostgreSQL.

Data & Tools: Databricks, Cube.js, VSCode, Android Studio, Git, Claude Code, Firebase, Supabase, Sanity CMS, Antigravity, Jupyter Notebook.

EXPERIENCE

Software & Data Engineer Intern | Rotate Asia

Jul 2026 – Present

- Working across both the application and data layers of a large production stack with the engineering team.
- Developing Angular features, with Cube.js as the middleware between the application and Databricks.

Head of Department – Technology | UMISA

Feb 2026 – Present

- Leading the Technology Department for the 2026/2027 session, maintaining and improving umisa.net.
- As Tech Lead, architected umisa.net from the ground up, leading a team of developers and a designer.
- Developed the full stack with Next.js, a Sanity CMS for dynamic content, and a Supabase database.

PROJECTS

Solo Developer | Settle | Next.js, Supabase, Prisma

2026

- Built an impulse-spending tracker solo for the Shortcut Asia 2026 mini hackathon, where users log what they want to buy and set a cooling period before deciding.
- Added savings streaks, group expense splitting, multi-currency support, and a time-cost view.

ML Lead | Letterboxd Roaster | Python, FastAPI, React, Scikit-Surprise

2026

Led a full-stack hybrid movie recommendation system, managing a team across ML, backend, and frontend.

- Engineered a two-stage pipeline combining Content-Based Filtering (TMDB metadata) and Collaborative Filtering (SVD on MovieLens 25M).
- Integrated the Gemini API with persona-driven prompt engineering to generate Letterboxd-style "roast" explanations per recommendation, fulfilling the project's XAI requirement.

See more of my projects on my [portfolio](#).