

MARCUS MAH QING FUNG

Bachelor Degree of Software Engineering

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EDUCATION

Bachelor Degree in Software Engineering with Honours

University of Malaya (UM)

Sep 2024 - Aug2028

Foundation in Physical Science

Universiti Teknologi Malaysia (UTM)

July 2023 - July 2024

• CGPA: 3.7

TECHNICAL SKILLS

- **Programming:** Java, C++, Python, HTML, Tailwind CSS, Flutter, TypeScript, React
- **Design Software:** Figma, Adobe Photoshop, Adobe Lightroom Classic, Canva
- **Others:** Microsoft 365, Google Workspace, Git, SQLite, PostgreSQL

ACADEMIC PROJECTS

Talk to Task - DAX Voice Assistant

April 2025

- Built for the emerging hands-free driving paradigm, it delivers a complete voice-controlled interface for Grab drivers.
- Engineered advanced noise cancellation capable of filtering intense environmental sounds, integrated with a variant speech recognition model supporting multiple languages and dialects.
- Built with a multi-agent architecture to enable seamless voice navigation and in-app task execution.
- **Tech Stack:** Flutter, Dart, Python, Google Maps, Gemini AI, Whisper AI, FastAPI, DeepFilterNet
- Won **1st Runner-Up** in the UM Hackathon 2025 organized by PEKOM

TransitGo Mobile Application

Mar 2025 - April 2025

Public Transit Solution for Sustainable Mobility

- Developed an app to encourage public transit use in Malaysia with simulated NFC payments and a gamified reward system.
- **Tech Stack:** Flutter, Dart, Firebase, Google Maps Platform API, Google AI Studio

StudySync WebApp

Feb 2025 - Mar 2025

Academic Scheduler for Universiti Malaya

- Developed a web app integrating with UM's TimeEdit system for real-time course scheduling and timetable management.
- Real-time data sync, conflict detection, local data persistence, PNG export for timetables, and clean, modern interface.
- **Tech Stack:** Built using React 19, TypeScript, and Vite, with Context API for state management

EXTRACURRICULAR

Committee of UM CyberSecurity Summit CTF 2025

Jan 2025 - Present

Persatuan Komputer Universiti Malaya (PEKOM)

- Assisted in the Contest Protocol and Infrastructure Department to ensure smooth event operations.
- Managed and moderated the official Discord server during the Capture The Flag (CTF) preliminary round.
- Designed and deployed a custom Discord bot to automate accurate role assignment based on registration data, significantly improving onboarding speed and minimizing manual errors.

ACHIEVEMENTS

UM Internal Hackathon 2024

Dec 2024

2nd Runner Up - Issued by Persatuan Komputer Universiti Malaya (PEKOM)

- Led the development of a comprehensive campus dining solution that addresses critical campus community needs.
- Demonstrated expertise in modern mobile technologies and user-centered design principles.

UM Hackathon 2025

April 2025

1st Runner Up - Issued by Universiti Malaya (UM)

- Collaborated in a team to build a DAX voice assistant and prioritize hands-free, distraction-free experiences for drivers.
- Served as the Full Stack Developer, contributing to intuitive user flows and clean interface design for the project.