

# MUHAMMAD IMRAN HADI BIN MOHD KHAIRI

Bachelor's Degree in Computer Science (Multimedia Computing),  
University of Malaya

☎ +60108115539

✉ hadikayell@gmail.com

📍 Kuala Lumpur/Penang

## ABOUT ME

Computer Science graduate with hands-on experience in full-stack development, LLM integration, and database management. Capable of managing the entire application lifecycle, from system design to final deployment. Looking to apply a solid technical foundation to solve complex problems in a dynamic technology team.

## EDUCATION

### SMK Datuk Haji Ahmad Badawi | 2018-2020

Science Stream, SPM: **3A+, 3A, 3A-**

### Universiti Teknologi MARA | 2021-2022

Foundation in Science, CGPA: **3.83**

### University of Malaya | 2022-2026

Bachelor's Degree in Computer Science (Multimedia Computing), CGPA: **3.59**

## SKILLS/KNOWLEDGE

- **Languages:** Python, Java, SQL, TypeScript/JavaScript.
- **Frontend:** Tailwind CSS, AlpineJS, Angular, PrimeNG, HTML/CSS, Jinja2.
- **Backend & Cloud:** FastAPI, Flask, Docker, Firebase, Railway.
- **Data & AI:** Pandas, Matplotlib, Tableau, PowerBI, ETL Pipelines, LLM Integration (OpenAI, Gemini, Ollama), Web Scraping, Pydantic Guardrails.
- **Methodologies:** System Design, Software Testing (QA), Git/GitHub.

## WORK EXPERIENCE

### Applied Accounting Solutions, Bangsar | 2025-2026 (6 months)

Full Stack Software Development Intern

- Collaborated in a two-person team to develop a comprehensive ERP/POS system tailored for an accounting firm.
- Engineered frontend and backend modules, ensuring seamless data flow between user interfaces and the central database.
- Designed and managed relational database structures to maintain data integrity for financial transactions and inventory tracking.
- Executed end-to-end software testing and UI/UX refinements to enhance system reliability and user experience.
- Implemented modular features to streamline reporting and data retrieval processes within the application.

## PROJECTS

### **Formuhalal: AI-Powered Halal Ingredient Substitute and Supplier Verification System | 42MY x K-Youth 2026 Sponsorship Programme**

<https://github.com/mhdimrnhdi/formuhalal>

Technologies: Python, FastAPI, Flask, Docker, Tailwind CSS, AlpineJS, Gemini, OpenAI, Ollama, Pydantic, Railway

- Engineered an ETL pipeline to scrape, extract, and process verified supplier data from the JAKIM and FDA databases into a structured data layer.
- Integrated a multi-model AI layer (Gemini, OpenAI, Ollama) for automated problem-solving and data synthesis, implementing Pydantic to ensure robust jailbreak prevention and output validation.
- Developed a containerized full-stack integration layer using Docker, bridging a FastAPI/Flask backend with a responsive frontend built on Jinja2, Tailwind, and AlpineJS.
- Successfully deployed the end-to-end containerized application on Railway for live user access.

### **Data Visualization**

Technologies: Python (Pandas, Matplotlib, Seaborn), Tableau, SAS

- Performed Exploratory Data Analysis (EDA) on music streaming datasets to identify key variables influencing song popularity.
- Conducted feature engineering and data preprocessing to prepare raw data for statistical modeling.
- Developed interactive Tableau dashboards to visualize listener behavior trends and song performance metrics.
- Interpreted statistical results to provide data-backed insights into the relationship between user engagement and commercial success.

### **Mobile App Development**

Technologies: Java, Android Studio, Firebase, GitHub

- Developed a specialized module for tracking biological growth data, including height, leaf count, and image logging.
- Integrated Firebase Realtime Database for cloud storage, enabling synchronized data retrieval and historical tracking.
- Built CRUD (Create, Read, Update, Delete) functionality allowing users to manage entries with historical data persistence.
- Utilized Git for version control and followed Agile practices within a team environment to ensure iterative feature delivery.

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## ACHIEVEMENTS

### **UKM Statistics Club Data Challenge 4.0**

- Placed in top 20 out of 71 groups.

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## OTHERS

### **Languages**

- Malay (Fluent)
- English (C1/Advanced)