

MOHAMAD FIRDAUS BIN KASAH HAMID

Software Engineer | Kuala Lumpur, Malaysia

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Mobile-focused Software Engineer with full-stack flexibility and a track record of award-winning solutions. Specializing in high-performance applications and end-to-end scalable architectures.



Experience

SNAPPYMOB SDN BHD | Kuala Lumpur, Malaysia

Software Engineer (Mid-level) | Oct 2024 – Present

Tech Stack: Flutter, React Native, NextJS, NestJS, Xamarin, PostgreSQL, AWS, Firebase

- **Reporting Module:** Developed a custom reporting module utilizing **TypeORM** and raw SQL queries to generate complex Excel datasets, reducing manual administrative reporting time for stakeholders.
- **Hardware-Software Module:** Integrated **QR scanning and thermal receipt printing** protocols within a **Xamarin** mobile app for plantation operations, improving asset tracking accuracy by digitizing physical workflows.
- **System Maintenance:** Maintained a high-traffic internal social media platform for a corporate client. Optimized performance for **thousands of active users** by addressing Firebase Analytics and Crashlytics reports.
- **DevOps Standardization:** Established the internal **Quality Assurance protocol** by integrating automated **Postman load testing** and maintaining Cypress E2E test cases into the development lifecycle; reduced production hotfixes by ensuring backends could sustain peak traffic loads.
- **Logistics & Fintech Integration:** Engineered an ice-making logistics system using **NestJS** and **Next.js**, successfully integrating the **LHDN MyInvois API** to ensure 100% regulatory compliance for digital billing.
- **Data Migration:** Executed a high-stakes **production database migration** of critical 10k customer data from legacy Excel formats to **PostgreSQL**; developed custom transformation scripts with **multi-stage validation** and **redundancy fail-safes** to ensure 100% data integrity with zero downtime.

INTECH ART SDN BHD | Kuala Lumpur, Malaysia

Full Stack Software Engineer (Part Time) | Oct 2025 - Present

Tech Stack: NextJS, Flask, Vercel, GCP

- **Full-Cycle ERP Development:** Led a two-person team in the end-to-end delivery of a multi-module Automotive ERP. Despite the 3-month timeline, the development managed to include Sales, Inventory, Stock Management, and **LHDN MyInvois** modules.
- **Scalability & Impact:** The platform currently powers **6 physical branches**, processing monthly sales transactions valued at around RM 1M+.
- **DevOps & Automation:** Established a modern **CI/CD pipeline** using **GitHub Actions**, deploying a **Flask/Next.js** stack to **GCP** and **Vercel**. Implemented **Playwright** for end-to-end automation testing to ensure zero-downtime deployments.
- **Architecture Optimization:** Led the migration of the codebase to a **Monorepo** structure, significantly reducing dependency conflicts and increasing development efficiency across the team.
- **Technical Leadership:** Facilitated weekly **Agile/Scrum meetings**, acting as the bridge between technical execution and business requirements for the stakeholders.

STUDENT DEVELOPMENT & ALUMNI DEPARTMENT, USM | Penang, Malaysia

Full-Stack Web Developer (Commissioned Project) | Mar 2023 – Sept 2023

Tech Stack: React.js

- **Product Delivery (Kebajikansiswa.usm.my):** Engineered a university-wide welfare application featuring a **digital meal coupon system**, successfully automating aid distribution for thousands of students.
- **Full-Cycle Development:** Led the end-to-end frontend architecture using **React.js**, from initial requirements gathering and high-fidelity **Figma prototyping** to final production deployment.
- **Stakeholder Management:** Acted as a **Functional Analyst** to translate complex university welfare policies into an intuitive admin dashboard, reducing manual application processing time by streamlining approval workflows.
- **System Architecture:** Designed the data schema and integrated the frontend with a **Node.js/MySQL** backend to ensure secure and scalable student data management.

CRITICAL MANUFACTURING MALAYSIA | Penang, Malaysia

Software Engineering Intern | Mar 2023 – Sept 2023

Tech Stack: Angular, .NET 6, MSSQL

- **Legacy Modernization:** Migrated high-scale client sites from legacy ASP.NET (MVC) to modern **Angular architectures**, improving frontend performance and maintainability.
- **MES Submodule Development:** Designed and implemented two full-stack submodules for a **Manufacturing Execution System (MES)** using **Angular** and **.NET 6**, integrating complex business logic with **MSSQL** for real-time data persistence.
- **Full-Stack Optimization:** Developed RESTful APIs and optimized database queries to ensure enterprise-grade stability and low-latency data retrieval.
- **Documentation Leadership:** Led the creation of Operation & Maintenance (O&M) documentation as Lead Intern, ensuring 100% knowledge transfer for client-facing systems.

Skills & Tools

- **Languages & Core:** TypeScript, JavaScript (ES6+), SQL (PostgreSQL/MSSQL), Python, Java, C++.
- **Frontend & Mobile:** Next.js, React, **Flutter**, **React Native**, Angular, Xamarin, Tailwind CSS.
- **Backend & API:** NestJS, Node.js, Flask, ASP.NET Core, TypeORM
- **Cloud & DevOps:** AWS, GCP, **Docker**, **GitHub Actions (CI/CD)**, Vercel, Firebase/Supabase.
- **Testing & Tools:** Cypress (E2E), Playwright, Postman, Monorepo Management, Figma, Agile/Scrum.

Education

UNIVERSITI SAINS MALAYSIA | Penang, Malaysia
Degree, Bachelor of Computer | *Oct 2020 – Sept 2024*
CGPA: **3.51**

Major: Software Engineering, Electives: Machine Learning,
Dean List Award: Semester 1, 2 & 5
Extracurricular: Multiple Debate Champion

Projects & Achievements

SawitCare – Palm Oil Plantation Management Mobile Application (Flutter, Supabase, Firebase)

- Application for managing plantation's employees, tracking plantation activity, and plantation specific marketplace.
- Integrated with IoT & Image Recognition Technology to track fruit ripeness across plantation.
- Award : **Varsity Hackathon 2024 2nd Runner Up & Best Final Year Project**

NavOpp – Navigation Widget (Java, XML) for OPPO ColorOSHack by OPPO Global

- Prototype of a native OPPO navigation widget for seamless user experience.
- Award : **International Hackathon Winner:** Prototyped and pitched **NavOpp**, a native ColorOS navigation widget. Evaluated and awarded by senior leadership from **Grab, ShopBack, and OPPO** for UX innovation and technical feasibility.

GerakJoom - Solution Ideation in UI/UX Design

- Award : **Hackathon Winner & ASEAN-Level Participant:** Led a cross-functional team to develop a carpooling ecosystem. Orchestrated the technical roadmap and business model, focusing on policy advocacy and scalable UI/UX design.

KitaCycle – Waste Management Mobile Application (Flutter)

- A front-end ready mobile application to provide commercial waste management using Flutter.
- Award : **Varsity Hackathon 2023 2nd Runner Up**

Bah! – Flood Disaster Management Mobile Application (Flutter, Firebase, Google Cloud)

- A mobile application to provide comprehensive flood alert with real time web scraping data

Others

COMPUTER SCIENCES SOCIETY USM | Universiti Sains Malaysia, Malaysia

Engagement & Welfare Director | November 2021 – August 2022

- **Leadership & Industry Engagement:** Directed student welfare initiatives, coordinated technical judging for an international hackathon with 1,000+ participants, and managed corporate relations for 26 tech companies during the USM CS Recruitment Fair.

YOUTH4CT WORKSHOP BY UNITED CITIES ASIA | George Town, Penang, Malaysia

Facilitator for the Winning Team | January 2022

- Acted as lead facilitator for the winning team during the United Cities Asia workshop, coordinating hackathon logistics and hosting technical sessions for international urban development stakeholders.

Referees available upon request