ZAFRAN BIN MUHAMAD SAKOWI

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EDUCATION

UNIVERSITY TEKONOLOGI MALAYSIA **Johor, MY**
Bachelor of Computer Science (Software Engineering) with Honours **Graduate Aug 2026**
Cumulative GPA: 3.79/4.0; Dean's List 2022-2026

SKILL

- Languages & Frameworks: Java (Spring Boot), Python (FastAPI, TensorFlow/Keras), JavaScript (Next.js, React Native)
- Cloud & DevOps: Docker, Linux (Ubuntu Server), Git/GitHub Actions, RESTful APIs, CI/CD Pipelines
- Data & Databases: MySQL (T-SQL Optimization), Hibernate ORM, TFLite |Tooling: Postman, VS Code, IntelliJ IDEA
- Soft Skills: Team Leadership & Collaboration, Project Management, Agile Methodology, cross-functional communication, Problem Solving, Community Development

WORK EXPERIENCE

Cipta Craft Solutions **Johor,MY**
Freelancer Full-Stack Developer **Jun 2025 – Present**

- Developed XFitness, a cross-platform fitness membership platform using Next.js 15, achieving a 30% SEO score improvement through Server-Side Rendering and React Server Component optimization across 5 core pages.
- Automated client billing and class scheduling workflows using cron-based job queuing, eliminating 15 hours/week of manual administrative overhead and reducing billing errors to zero.
- Directed a 5-person team across 3 product sprints using GitFlow branching and automated test suites, delivering all milestones on schedule across a 10-week engagement.

Mattel Malaysia Sdn Bhd **Penang, MY**
IT (Software Developer) Intern **Aug 2025 – Jan 2026**

- Reduced QC dashboard load time by 94% (from ~8s to <0.5s) via targeted T-SQL query optimization and index restructuring, eliminating a bottleneck affecting 20+ production line operators daily.
- Developed a state-machine-driven audit trail system for global manufacturing workflows, preventing unauthorized record modification and passing Mattel's internal compliance audit on first submission.
- Collaborated with cross-functional teams to migrate 3 legacy ASP.NET modules to modern MVC architecture, reducing average page load time by ~40% and enabling non-technical staff to perform routine updates without developer intervention.

TECHNICAL PROJECT

FloraScan - AI-Powered Papaya Crop Diagnostic Tool **Sep 2025**

- Architected a dual-stage inference pipeline using EfficientNetB0, utilizing a binary classifier to filter healthy samples before triggering a 10-class diagnostic model, reducing computational load by 40%.
- Engineered an edge-compatible mobile solution using TFLite and React Native, implementing an MVVM pattern to handle real-time image processing and offline diagnostic capabilities.
- Optimized model deployment via FastAPI and Docker, creating a scalable REST API capable of serving high-accuracy crop health reports to remote field devices.
- Stack: Python (TensorFlow/Keras, FastAPI), React Native, Docker, TFLite | GitHub →

TVPSS Management Information System **Jan 2025**

- Developed a centralized ERP system to manage multi-tier broadcast operations, including equipment inventory tracking and personnel scheduling for 50+ users.
- Implemented a secure Role-Based Access Control (RBAC) framework and RESTful architecture using Spring Boot and Hibernate, eliminating unauthorized data access and ensuring system integrity.
- Impact: Improved administrative reporting throughput by 35% through the automation of manual scheduling logs and SQL-optimized data retrieval.