

MUHAMMAD FIKRI

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Backend Engineer and recent graduate specializing in Java and Spring Boot. Passionate about building scalable, high-performance applications with a strong focus on robust testing, SOLID principles, and clear documentation using the OpenAPI standard.

Education

State Islamic University of Sultan Syarif Kasim Riau
Bachelor, Informatics Engineering

Pekanbaru, Riau
Graduated: January 2025

Experience

Incubator Faculty of Science and Technology UIN Suska
Software Engineering Intern

Pekanbaru, Riau
Jan 2023 - Mar 2023

- **Develop** A Qur'an Backend API using **ExpressJS** to serve Quranic data for Android Client with well documentation.
- **Designed** a relational MySQL schema to the **Third Normal Form (3NF)** to eliminate data redundancy and prevent anomalies during insertion, update, and deletion of Quranic data set.

Bangkit Academy 2024

Cloud Computing Learning Path

Feb 2024 - Jul 2024

- **Completed** the program with a focus on learning Google Cloud Platform, architecture cloud, and DevOps.
- Learning Soft Skill and Technical Skill from professional mentors.
- **Developing** API Endpoints to process the request from Android clients in Capstone Project.

Projects

Widuri E-Stock

May 2025 - Present

- **Engineered** API Endpoint for CRUD (Create, Read, Update, Delete) operations on product data at Widuri Fishing shop using **Java Spring Boot**.
- **Optimized** a critical SQL query for the product-listing API, improving the average response time for deep pagination requests by **98%**.
- **Ensured** high application reliability by implementing a robust testing suite with **JUnit** and **Mockito**, resulting in **96% line** and **83% branch** coverage (JaCoCo).
- **Documenting** the API Endpoint using **OpenAPI** specification standard.

Iraise Microservice (University Final Project)

Jul 2024 - Jan 2025

- **Engineered** a Role-Based Access Control (RBAC) system in a microservices architecture, integrating **Keycloak** for centralized IAM.
- **Validated** the entire security model with a **Postman** automated test suite, confirming correct permissions across 100+ API endpoints.
- **Containerized** the multi-service application with **Docker** to ensure a consistent and portable deployment environment.

Skin Enthusiasm App (Capstone Project Bangkit)

Jun 2024 - Jul 2024

- **Collaborated** on the design of a **MySQL** database schema to efficiently store user profiles, image analysis results, and product recommendations.
- **Engineered** the core backend **REST API** using **Spring Boot** to process image uploads from the Android client and communicate with the Machine Learning model for analysis.
- **Authored** comprehensive developer documentation in the project's , enabling mobile developers to seamlessly integrate with the backend API.

Skills

Technical Skills

- **Languages:** Java, Javascript, SQL
- **Frameworks:** Spring Boot, Express.js, Vue.js
- **Databases:** MySQL
- **Developer Tools:** Git, Docker, OpenAPI, Keycloak, JUnit, Postman
- **Cloud Platforms:** Google Cloud Platform (GCP)

Languages:

- Indonesian (Native)
- English (Advanced)