

# MOHAMAD RIFQY ZULKARNAEN

## BACKEND ENGINEER

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## OVERVIEW

Backend Software Engineer with **4 years** of experience engineering **mission-critical** financial systems. Specialized in **Java (Spring Boot)** to build high-availability APIs and orchestrate **zero-downtime** legacy migrations. Proven track record of performance tuning, including a **90% reduction in API latency** (1s → 100ms) for high-volume transactions. Dedicated to building secure, scalable architectures that support rapid business expansion.

## EXPERIENCE

### Full Stack Engineer

Generous Co. Ltd | July 2025 - Current | Fixed Term Contract Employee

- Solely responsible for end-to-end development (**Project Manager, Architecture, Full Stack, DevOps**) for mission-critical systems.
- **Cardiac Telerehabilitation System:** Led the engineering of a JICA-sponsored medical platform for South Asia. Designed a scalable backend architecture and implemented robust DevOps pipelines to support remote medical rehabilitation and heart check services.
- **Reporting System Transformation:** Engineered a real-time visualization platform connecting **28 sites nationwide**, replacing legacy paper workflows. Achieved a **60% reduction** in reporting time, optimizing operational efficiency and transparency for management.
- **Legacy System Maintenance (CMS):** Solely responsible for the maintenance, bug fixing, and feature enhancement of the company's CMS, ensuring operational stability and continuous improvement of internal tools.

**Tech Stacks:** Ruby on Rails, Spring Boot, ReactJS, Angular, PostgreSQL, Kotlin, Redis, Google Cloud Platform, GitHub, Docker, Debian, MacOS

### Backend Engineer

Nusa Satu Inti Artha Co. Ltd. (DOKU) | Apr 2022 - July 2025 | Full Time

- Executed a zero-downtime migration of **200+ merchants** to a new payment platform by developing custom data migration APIs and management tools.
- Reduced payment middleware API latency by **90% (1s to 100ms)** by optimizing encryption and decryption logic, significantly improving user experience.
- Integrated the 'DANA' payment channel for major client SnackVideo, driving a **significant increase** in overall transaction volume.
- Acted as the **Technical Lead's right hand**, executing development management tasks such as architectural design, deployment coordination, and sprint planning (story point management).
- **Mentored new members** (code reviews, technical guidance) and led critical production bug fixes and incident response, contributing to team growth and system stability.

**Tech Stacks:** Spring Boot, Angular, PostgreSQL, Redis, AlibabaCloud, GitLab, Docker, Apache Kafka, Debezium, Debian, MacOS, SonarQube, Snyk

### Software Quality Assurance

Global Tiket Network Co. Ltd. | Aug 2021 - Feb 2022 | Internship

- Developed comprehensive test cases and test plans for various software projects, ensuring thorough coverage of functionalities.
- Conducted manual testing across multiple platforms, ensuring compatibility and functionality across diverse environments.
- Managed testing for improvements and new features on **6+ projects** during 6 month internship.

**Tech Stacks:** TestRails, Postman, BrowserStack, Swagger, Confluence, JIRA

## EDUCATION

### Bachelor of Computer Science, University of Indonesia (2018 - 2022)

- **Teaching Assistant** of Platform Based Programming, Advanced Programming, Software Engineering Project, Web Design and Programming (2020 - 2023)
- **Thesis:** Reverse Engineering Sistem Informasi Sidang Fasilkom UI for Creating Technical Documentation and Application Improvisation Recommendations

## SKILLS & TOOLS

- Programming Language: Python, Java, JavaScript, TypeScript, HTML/CSS, Ruby
- Framework: Django REST, FastAPI, SpringBoot, ReactJS, Angular, Ruby on Rails, Kotlin
- Database: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, SQLite3
- DevOps/Other: Docker, Apache Kafka, RabbitMQ, Google Cloud, Alibaba Cloud, Linux/MacOS, Debezium, Claude AI, Gemini AI
- Testing: Manual QA Testing, JUnit, Cucumber, K6, Locust
- Development: Git (GitHub, GitLab), Code Review, System Design, CI/CD, Debugging