

# Fajri Illahi

Technical Lead · Backend Engineer

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## SUMMARY

Technical Lead with 7+ years building event-driven backend systems across insurance, fintech, hospitality, healthcare, and education. Currently leading 4 backend squads at IFG Life on the LifeFORCE insurance platform. BSc Physics (ITB). Active mentor and corporate trainer at BCA, DOKU Academy, and TICMI.

## EXPERIENCE

### Technical Lead — IFG Life

Mar 2023 – Present

*Jakarta, Indonesia*

Lead four backend squads on the LifeFORCE insurance platform — customer onboarding, policy management, and claims, served by event-driven microservices on Kubernetes.

- Designed and led delivery of event-driven microservices on Java/Spring Boot, PostgreSQL, Kafka, Kubernetes, and AWS — coordinating across four squads (Individual, Group, Partnership, Automation).
- Set API design, code-review, and observability standards across the tribe; ran cross-functional architecture reviews with Solution Architects, DevOps, BE/FE leads, and PMs.
- Through the Automation squad, delivered policy-business pipelines (KKPM, Reinstatement, Renewal, Alteration Data) for both retail and corporate clients.
- Coached engineers on hexagonal architecture, OWASP-aligned secure coding, and pragmatic system design.

**Stack:** Java, Spring Boot, PostgreSQL, Kafka, Kubernetes, AWS, Docker, Jenkins, Bitbucket, Konga, Flyway, REST, gRPC

### Software Engineer — ZEN Rooms

Jun 2022 – Mar 2023

*Singapore (Remote)*

Backend engineer on the hospitality booking platform serving APAC properties.

- Built Go/Echo microservices on PostgreSQL for inventory and rate management — including a review-service from scratch and an Extranet CRUD.
- Authored unit and integration test suites for backend services; containerized with Docker for reliable multi-region deploys.
- Shipped a Laravel/Lumen finance toolkit (Kaizen) that pulled Zoho third-party data and emitted PDF account statements via email; contributed to RMS (Revenue Management System) access control and the ZEN-HS Winter-CMS marketing site.

**Stack:** Go, Echo, PostgreSQL, Docker, REST, PHP, Laravel

### IT Developer · Backend Engineer — Home Credit Indonesia

Jul 2021 – Jun 2022

*Jakarta, Indonesia*

Backend engineer on consumer-finance core services and payment integrations.

- Shipped Java/Spring Boot microservices on Kubernetes (k8s + Rancher) with RabbitMQ + JMS for async workflows; deployed via auto CI/CD on WebLogic + ingress load balancer.
- Owned mobile-service development for payment integrations: QRIS via Single PIN (kaspro), HcPay PPOB, AyoConnect paylater, and Power Paylater.
- Implemented hexagonal-architecture clean-code patterns; traced production issues with Splunk against Oracle/Redis backends.

**Stack:** Java, Spring Boot, Kubernetes, Rancher, Docker, RabbitMQ, JMS, WebLogic, Oracle, Splunk, REST, SOAP

**Backend Software Engineer** — Assist.id

Sep 2019 – Jul 2021

*Riau, Indonesia*

Backend engineer on healthcare facility management SaaS for clinics across Indonesia.

- Designed RESTful APIs for the warehouse module of a healthcare facility-management SaaS used by clinics across Indonesia.
- Built and maintained Node.js / Express / LoopBack services backed by MongoDB aggregation pipelines for billing, claims, and operational reporting.
- Shipped a high-impact cron-driven auto-checkout feature for clinic doctors.

**Stack:** Node.js, Express, LoopBack, MongoDB

**Private Tutor** — Superprof

May 2020 – Jun 2021

*Pekanbaru, Riau, Indonesia*

Side-gig private tutoring (concurrent with Assist.id) — math, physics, and computer science.

- Tutored students in mathematics, physics, and computer science with an emphasis on problem-solving and abstract thinking.

**Stack:** Mathematics, Physics, Algorithms

**Coordinator of Physics Laboratory Assistants** — Institut Teknologi Bandung

Aug 2015 – Jun 2018

*Bandung, Indonesia*

Led the team of physics-experiment assistants who mentored undergraduates through hands-on lab work.

- Led a team of physics laboratory assistants.
- Coordinated mentoring of undergraduate students through hands-on physics experiments.
- Evaluated and refined the laboratory experiment modules.

**Stack:** Physics, Mentorship, Curriculum Design

## EDUCATION

**Bachelor of Science** in Physics — Institut Teknologi Bandung (ITB)

## SKILLS

**Languages:** Java, Go, TypeScript, JavaScript, Python, PHP

**Backend:** Spring Boot, Echo, Express.js, LoopBack, FastAPI, REST, gRPC, SOAP

**Infra:** Kubernetes, Docker, AWS, Jenkins, CI/CD, Kafka, RabbitMQ

**Data:** PostgreSQL, Oracle, MongoDB, Redis, SQLite

**Practices:** Microservices, Hexagonal Architecture, Event-Driven Design, OWASP, Agile / Scrum, System Design, Code Review, Mentorship

## PROJECTS

**Jarvis Main System** — Local Windows voice assistant: clap-wake-word → STT → Anthropic SDK command dispatch.

Stack: Python, sounddevice, openwakeword, Anthropic SDK, websockets

**Sendi - AI-Based Materials Failure Analysis** — LLM-assisted metallurgical failure analysis on SEM fractographs and stress-strain data.

Stack: Next.js, FastAPI, TypeScript, Python, Claude API

**Afdal · Personal Finance** — Personal finance tracker — wallets, transactions, assets, cashflow — built on Next.js 16 + Prisma.

Stack: Next.js, TypeScript, Tailwind, Prisma, SQLite, Recharts, Radix UI

## TEACHING & TRAINING

**Spring Boot Trainer** — ONE Indonesia × BCA, 30 engineers (Lead Instructor) Dec 2025

**Java Mentor** — Alterra / DOKU Academy, 20 engineers (Mentor) Oct 2022 – Feb 2023

**Python Trainer** — TICMI (Trainer) Jan 2024 – Mar 2024

**Java Trainer** — PT Ikonsultan Inovatama (Trainer) Jan 2023 – Feb 2023

## AWARDS

- Global Emerging Market IT Business Entrepreneur Program
- Finalist — CIMB 3D Conquest Data Science Hackathon — CIMB

## LANGUAGES

Indonesian (Native) · English (Professional)