

Muhammad Jamaludin Nur

Backend Engineer | Go · Java Spring Boot · Microservices

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WORK EXPERIENCE

Backend Developer · PT Monarch Inti Teknologi · West Jakarta, Indonesia Jun 2026 - Present

- Building a merchant aggregator engine that serves as a **single integration point between merchants and multiple Payment Junction Providers (PJPs)** — including Beyontech, Payara, Inacash, Moneyball, Teletrans, and Winpay — so merchants only need one integration to access all providers.
- Designed automatic transaction routing logic that selects the most suitable PJP per request based on availability and configuration — ensuring payment continuity even when one provider goes down.
- Architected the system for extensibility: onboarding a new PJP requires minimal code change, allowing the business to expand payment partnerships without reworking the existing codebase.

Backend Developer · PT Firstudio · Semarang (Hybrid) Jan - Jul 2025

- Built a Citizen Management System handling **24,000+ resident records** with 43 REST API endpoints — enabling city admins to manage population data across departments efficiently.
- Secured the service with API Key auth and rate limiting; deployed to production VPS via Docker for consistent, repeatable releases.

Web Developer Intern · PWM JATENG · Semarang Feb - Mar 2025

- Delivered websites for two divisions featuring event registration, donation tracking, and public info pages — moving their manual workflows fully online within 2 months.

Student Mentor — Basic Programming · Universitas Dian Nuswantoro · Semarang Dec 2023

- Led a 3-day workshop teaching programming fundamentals and logical problem-solving to junior students.

FEATURED PROJECTS

Enterprise Banking Microservices System

Stack: Go Fiber, Java Spring Boot, Kafka, gRPC, PostgreSQL, Redis, Spring Cloud Gateway, Eureka, Docker

- Built 6 independent services covering transfers, auth (TOTP 2FA + JWT), accounts, audit logs, and real-time notifications — each scalable without affecting the others.
- Key reliability guarantee: **if a transfer succeeds but the notification service is temporarily down, the system retries automatically — no financial event is ever silently lost.**

Payment Gateway Integration — Midtrans

Stack: Go, PostgreSQL, Redis, Apache Kafka, Docker

- Built with 3 core safeguards: **no duplicate charges** (detects double-submit), **no data loss on crash** (records saved locally first), **no balance conflicts** (prevents two simultaneous payments on one account).
- Auto-pauses requests when Midtrans is unavailable instead of flooding the provider — keeping the system stable during outages.

RESEARCH & PUBLICATION

🏆 **Best Paper Award** · IEEE Xplore, ISEMANTIC 2025 Dec 2025

- First author of a peer-reviewed ML paper on customer churn prediction (CatBoost + domain feature engineering) — awarded Best Paper among all conference submissions.

EDUCATION

B.Sc. Informatics Engineering · Universitas Dian Nuswantoro (UDINUS) · Semarang 2022 - Feb 2026

GPA 3.65 / 4.00 · 146 credits · 0 failing grades across all 54 courses

TECHNICAL SKILLS

Languages: Go (Golang), Java, Python, SQL

Frameworks & APIs: Spring Boot, Spring Cloud Gateway, Go Fiber, Gin, gRPC, REST API, WebSocket

Databases & Messaging: PostgreSQL, MySQL, Redis, Apache Kafka

DevOps & Architecture: Docker, VPS, Git, Microservices, Event-Driven Architecture, Eureka