

Nanda Wijaya Putra

Software Engineer — Distributed Systems, Payments & Observability

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Open to remote roles & relocation with visa sponsorship — SG / JP / AU / MY / UK

SUMMARY

Backend engineer with 3 years of experience building Go microservices for payment, billing, and high-traffic consumer platforms. Strong in distributed systems (gRPC, NATS, Kafka), production observability (OpenTelemetry, Prometheus, Grafana), and cloud-native delivery on AWS and Kubernetes. Disciplined about correctness: 100% unit-test coverage on owned services, peer code review, and on-call ownership of user-facing payment flows.

PROFESSIONAL EXPERIENCE

Sekolah.mu (PT Semesta Integrasi Digital) — Software Engineer, Backend

Jan 2026 – Present

Leading Indonesian EdTech platform, nationwide blended-learning programs.

- Own 10 payment and billing microservices (Go, gRPC) powering learning-package purchases, voucher campaigns, and billing; designed idempotent payment handlers and event-driven workflows (NATS, AsyncQueue) to keep transactions consistent across squads.
- Resolved user-impacting on-call incidents — failed payment-request creation, missing price data, and discount-calculation bugs — isolating root cause through logs, metrics, and traces, then shipping fixes with regression tests.
- Drove observability adoption across the Payment-Finance domain by designing team-specific Grafana dashboards and alerting, surfacing silent NATS worker failures and process spikes before they reached production.
- Integrated multiple third-party payment gateways and operated distributed data stores (PostgreSQL, MongoDB, Redis, Elasticsearch) for secure, high-throughput transaction processing.
- Sustain 100% unit-test coverage on owned services and review merge requests for 3 peer engineers, spreading payment-domain knowledge across the squad.

Sekolah.mu (PT Semesta Integrasi Digital) — Software Engineer (Freelance)

Sep 2025 – Dec 2025

Digitalizing financial logistics for core operations.

- Accelerated the student transfer process by over 95% (2–3 days to 1–2 hours) by leading end-to-end development of a full-stack financial tracking system (Go, Vue.js) supporting the company's flexible-location policy.
- Automated financial cross-checking and revenue calculation, instantly evaluating utilized versus forfeited funds and price adjustments across branches, eliminating error-prone manual validation.
- Engineered Go REST APIs with strict access control and 100% unit-test coverage for financial auditability, unifying Operations and Finance onto one platform with one-click approvals.

Apotek Roxy (PT Kreanova Pharmaret) — DevSecOps Engineer (Freelance)

Jan 2025 – Sep 2025

Pharmaceutical retail chain launching its first e-commerce channel.

- Designed and implemented a highly available, scalable AWS architecture (ECS, EC2, RDS, ALB) for a new customer-facing e-commerce platform, driving the company's retail digitalization.
- Architected an end-to-end observability stack (Grafana, Prometheus, Loki) for real-time traffic monitoring and anomaly detection on retail transactions.
- Automated microservice deployments with Kubernetes (Helm) and Docker for dynamic auto-scaling under traffic spikes, and cut deployment time 60% via GitLab CI.

PT Busanid Techno Asia — Backend Developer

Jan 2024 – Jun 2025

IT consulting firm delivering scalable solutions for Indonesian enterprises.

- **ERP System Migration:** Refactored Laravel services into Go and eliminated N+1 query patterns, cutting API response time from 5s to 100ms.
- **E-Commerce Platform:** Built Go backend services with tuned PostgreSQL queries and instrumented core microservices with OpenTelemetry for distributed tracing.
- **Retail Data Synchronization:** Built real-time transaction and stock sync across outlets using Apache Kafka, deploying per-outlet microservices with Docker.

EDUCATION

Institut Pertanian Bogor (IPB University) — B.A.Sc. Software Engineering Technology

Aug 2021 – Jul 2025

- Thesis: *Comprehensive Observability Integration Using Logs, Metrics, and Tracing to Enhance Reliability and Scalability of Backend Systems*
- Top 10 Finalist, Hackfest by Google Developer Student Indonesia — of 700+ teams

SKILLS

Languages: Go, TypeScript, JavaScript, Python, SQL, LogQL

Backend & Messaging: gRPC, Protobuf, REST, Echo, Gin, NATS, Apache Kafka, Google Pub/Sub, idempotent consumers, Vue.js, Next.js

Data Stores: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

Observability: OpenTelemetry, Prometheus, Grafana, Loki, distributed tracing, alerting

Cloud & DevOps: AWS (ECS, EC2, RDS, ALB), Kubernetes, Helm, Docker, GitLab CI, Nginx

Practices: Unit testing (100% coverage), code review, microservices, on-call response