

NAZHIF SETYA NUGROHO

Backend & Platform Engineer · Applied AI/LLM

Node.js/TypeScript · Kubernetes · Kafka · PostgreSQL · event-driven microservices

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Bekasi, Indonesia

SUMMARY

Backend/platform engineer who designs, builds, and operates production, multi-tenant, event-driven systems end-to-end — from PostgreSQL schema and Kafka pipelines to self-hosted Kubernetes and secrets management. Recent focus is applied LLM engineering: agentic runtimes with strict privilege separation and tool sandboxing across both client and personal projects. Ships for enterprise clients and builds solo AI side-products.

SKILLS

- **Backend & Data:** Node.js, TypeScript, Express, PostgreSQL, Redis, Sequelize, pgvector, RESTful API design, webhooks, SOAP/XML, concurrency control, idempotency
- **Infra & Ops:** Kubernetes (K8s), Docker, containerization & orchestration, Apache Kafka, HashiCorp Vault, CI/CD (Jenkins), Prometheus/Grafana, Longhorn, Tailscale, Linux (Ubuntu/VPS), cloud-native infrastructure, observability (monitoring, logging, alerting)
- **AI / LLM:** LLM integration, agentic tool-use, structured output, prompt-injection defense, vector search / RAG
- **Security:** authentication & authorization, row-level security (RLS), RBAC, encryption (AES-256), secrets management, privilege separation
- **Architecture & Practice:** distributed systems, microservices, event streaming / message queues / pub-sub, event-driven & multi-tenant SaaS, system design, code review, engineering guardrails
- **Frontend (secondary):** React, Next.js, Redux, Tailwind, shadcn/ui, Vite
- **Languages:** TypeScript, JavaScript, SQL · Python, Go (familiar)
- **Spoken:** Indonesian (native), English (professional working proficiency)

EXPERIENCE

Full-Stack Engineer (backend/platform focus) — Kalachakra Consulting

Feb 2024 – Present

Bekasi, Indonesia

- **Event-driven B2B SaaS platform** — designed, built, and operate core services of a production, multi-tenant platform: a Kafka event spine (9 topics + dead-letter queue) with 4 decoupled consumer microservices, run on a single self-managed Kubernetes node — deliberately right-sized for the client's scale while keeping a horizontally-scalable event architecture (CloudNativePG PostgreSQL, KRaft Kafka, Redis, HashiCorp Vault).
- **Regulated financial-data integration** — built a resilient integration against a regulated financial-data provider's account-to-account API: footprint-minimizing repeat queries, AES-256 per-tenant credential encryption, and an auditable unique-reference scheme.
- **LLM WhatsApp assistant** — shipped an agentic LLM assistant grounded in live PostgreSQL via token-guarded tool shims, with race-free concurrent booking (row-level locking + idempotency keys) and privilege separation (model proposes writes only; RCE-capable tools disabled).
- **Usage-based billing engine** — designed a quota + billing engine (reservation semantics, automatic resume-sweep) integrated with a hosted payment gateway, with constant-time webhook verification and fail-closed defaults.
- **Field-service platform** — delivered ticketing with automated escalation/closure, multi-warehouse inventory, reconciliation, a CMS, and a mobile technician app for an enterprise payments client — cutting on-site technician visits and operational cost.
- **Delivery infrastructure** — own the team CI/CD pipeline (Jenkins → Docker → Slack), a Tailscale mesh, Vault-managed secrets, cluster observability (Prometheus/Grafana), and shared engineering guardrails for the team's codebases.

PROJECTS

NEMORIS — WhatsApp-native multi-tenant AI memory assistant (solo) · [nemoris.id](#)

- Postgres + pgvector temporal memory and an agentic LLM runtime with per-user session isolation; WhatsApp-OTP auth over Postgres row-level security; two zero-downtime production replatforms.
- Built a prompt-injection test suite (150+ scenarios) with 0 cross-tenant leaks across the harness.

AI Trading Copilot — custom LLM skill for crypto perps (advisory-only)

- Regime-classification + quantitative risk engine over exchange REST/WebSocket data, real-time key-level Telegram alerts, and headless charting; enforces a strict advisory-only human-in-the-loop boundary.

EDUCATION

Telkom University — B.Eng., Electrical Engineering

Aug 2018 – Mar 2023

AWARDS

Best Student — Purwadhika Digital Technology School

Mar 2024

Web Development, Batch 3 — top-ranked graduate of the cohort

CERTIFICATIONS

Full-Stack Web Development — Purwadhika Digital Technology School

2023