

Egi Purnama Mauludin

Software Engineer | Backend & Full-Stack | Cloud/DevOps

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SUMMARY

Software Engineer with 2 years of production experience in backend and platform work: Spring Boot, Node.js, and Go APIs on PostgreSQL, MongoDB, and Redis; payment integrations (Xendit Payments API v3, Midtrans); CI/CD, Kubernetes, and monitoring (VictoriaMetrics, Grafana) for 15+ applications across 5 clusters; and Cloudflare CDN, caching rules, and Zero Trust. Also build full-stack features with Nuxt and Next.js and automate business operations with n8n and AI agents. Comfortable owning a feature end to end, from database design to deployment.

WORK EXPERIENCE

Satu Persen — Indonesian Life School

Jakarta, Indonesia · Remote

Software Engineer (Full-time)

Jul 2026 – Present

- Lead development across the backend APIs (4 Spring Boot services on PostgreSQL, MongoDB, and Redis), customer web app, and admin CMS, with a focus on checkout reliability, site speed, and SEO.
- Lead and mentor 3 engineering interns: onboarding, task planning and prioritisation, code review, and day-to-day coaching on the codebase and release workflow.
- Migrated 6 payment channels (OVO, DANA, LinkAja, BSI and Sampoerna virtual accounts, Indomaret) to Xendit Payments API v3 with a verified webhook handler, running alongside existing Midtrans channels.
- Took synchronous Mixpanel and GA/BigQuery calls off the payment webhook shared by Midtrans and Xendit, cutting the time to record a paid status by 99% (median 521 ms → 5 ms; p99 10.9 s → 40 ms) across 2,400+ production payments.
- Raised the homepage Lighthouse performance score from 45 to 99 (desktop) by lazy-loading below-the-fold images, shrinking SSR payloads, splitting heavy vendor chunks, dropping unneeded resource hints, and loading GTM and Meta Pixel after the first interaction.
- Build AI agents and n8n workflows that automate email triage, webinar setup (Zoom + WhatsApp groups), and consultation video generation.
- Own CI/CD, Docker, Kubernetes, and monitoring (VictoriaMetrics, Grafana, Headlamp) for 15+ applications across 29 repositories and 5 clusters; replaced a single shared CI runner, where 1 in 10 jobs waited 6+ minutes to start (measured over 889 jobs), with two parallel self-hosted runners.

Software Engineer (Contract)

Feb 2025 – Jul 2026

- Built and maintained GitHub Actions pipelines on self-hosted runners: Docker build, private registry, and templated Kubernetes manifests applied per cluster for dev and production (plus staging for the main web and API).
- Cut checkout time (clicking Pay to payment instructions) by ~90%, from 5–7 s to ~500 ms on average, by making confirmation email and WhatsApp messages asynchronous and fixing N+1 queries with JOIN FETCH, DTO projections, an index, and Hikari pool tuning.
- Reduced the order-status lookup that the payment page polls every 3 seconds from 3+ queries to 1.
- Developed backend APIs (Spring Boot, Node.js) and full-stack features (Nuxt, Vue) for fast, secure data exchange.

Tech Specialist Intern (Apprenticeship)

Nov 2024 – Feb 2025

- Built the first automated workflows and AI solutions with n8n for day-to-day operations.
- Set up monitoring to track website health and server errors.
- Provided daily IT support and maintained web applications.

SELECTED PROJECTS

- **Payment Gateway Migration (Xendit Payments API v3):** Spring Boot integration for 6 channels (OVO, DANA, LinkAja, BSI and Sampoerna virtual accounts, Indomaret); webhook handler with constant-time token check and server-side verification; Midtrans kept side by side; real v3 payments in production.
- **Payment Gateway Starter (open source, github.com/Mauludinegi/payment-gateway-starter):** Full-stack checkout for Xendit and Midtrans (VA, QRIS, e-wallets, retail): Spring Boot 4 API and Nuxt UI store with admin dashboard; Google sign-in (Firebase) with Redis sessions; webhooks verified, deduplicated, and re-checked with the gateway; 43 tests, CI.
- **Checkout & Payment Webhook Performance:** Checkout from 5–7 s to ~500 ms by moving email and WhatsApp to async and fixing N+1 queries; later moved Mixpanel and GA/BigQuery out of the finish-payment step shared by Midtrans and Xendit webhooks with a bounded executor and a shared HTTP client: time to record a paid status down 99% (median 521 ms → 5 ms), payments waiting over 5 s down from 91 to 0.
- **Kubernetes Platform: CI/CD & Monitoring:** Push-based GitHub Actions pipelines for 15+ apps (29 repositories, 5 clusters): Docker, private registry, envsubst manifests, kubectl per cluster, HPA, Traefik; replaced a single shared runner (p90 queue 6+ min) with two parallel self-hosted runners; VictoriaMetrics (5-year retention), Grafana, and Headlamp for monitoring.
- **AI Email Triage & n8n Automation:** Gmail triage with LLM classification, department routing, template replies, and Lark alerts; n8n workflow that sets up Zoom meetings and WhatsApp groups for new webinars; FastAPI service that generates NotebookLM videos from test results.
- **CosmoOrchestrator: AI Agents from Chat to Pull Request:** Nuxt multi-agent platform: a Lead agent clarifies requests from web chat, Lark, Telegram, or WhatsApp and writes a PRD; after human approval, Coder and QA agents edit and test code in an E2B sandbox (self-healing loop up to 3 rounds) and open a GitHub PR; workspaces, pgvector memory, MCP tools, 240 unit tests, deployed on Kubernetes.
- **Session Tracker Chrome Extension:** Manifest V3 extension that reads Meet/Zoom participants and records consultation attendance through a Spring Boot API, viewable in the Nuxt CMS.

SKILLS

Languages: TypeScript, JavaScript, Java, Go, PHP, SQL

Frontend: Vue, Nuxt, React, Next.js, Tailwind CSS

Backend: Spring Boot, Node.js, Express, Nitro, Prisma, REST, SSE

Data: PostgreSQL, MySQL, MongoDB, Redis, Supabase, Firebase

DevOps: Docker, Kubernetes, k3s, GitHub Actions, Traefik, cert-manager, Linux, PM2

Cloud & Edge: Cloudflare CDN & caching, Cloudflare Rules, Cloudflare Zero Trust

Monitoring: VictoriaMetrics, Grafana, Headlamp

AI & Automation: n8n, Vercel AI SDK, LLM APIs, Playwright, Browser agents

Payments: Xendit Payments API v3, Midtrans

EDUCATION

Universitas Sebelas April

2021 – 2026

Bachelor of Computer Science (S.Kom), Informatics Engineering | GPA 3.62 / 4.00

TRAINING & CERTIFICATIONS

Superbootcamp Full-Stack (Golang & Next.js), SanberCode

Jun 2024 – Aug 2024

Front-End Web Development, Dicoding Indonesia

Feb 2024 – Jun 2024

Back-End Development (Node.js & Express), MSIB Independent Study Batch 5,

Aug 2023 – Dec 2023

Binar Academy

Back-End Web Development, Dicoding Indonesia

May 2022 – Sep 2022