Ansar Fadillah

Software Engineer — Backend & AI-Enabled Systems

Balikpapan / Greater Jakarta (BSD), Indonesia (Open to Relocation) · ansarfadillah17@gmail.com · +62 822-4811-6921
Portfolio: ansarfadillah.tech · LinkedIn: linkedin.com/in/ansar-fadillah · GitHub: github.com/ansxy

EXECUTIVE SUMMARY

Software Engineer specializing in multi-service backend architectures, automated customer and claim resolution workflows, and high-throughput REST & gRPC APIs in Go and Node.js (TypeScript). Proven track record owning mission-critical customer policy and claim-servicing backends at Rey.ID—driving down system latency, eliminating third-party SaaS costs, and maintaining high on-call reliability via full-stack observability (PostgreSQL, Redis, Docker, AWS/GCP). Power user of AI-augmented engineering workflows (agentic coding, automated test generation, and LLM-assisted system design) to ship resilient production systems faster.

TECHNICAL SKILLS

Languages & Runtimes:	Go (Golang), TypeScript, JavaScript (Node.js), SQL, Python, PHP
Backend, APIs & Web:	Go (Chi, Fiber, Gin), Express.js, gRPC, Protobuf, RESTful APIs, WebSockets (Socket.io), React, Next.js
Databases & Caching:	PostgreSQL, MySQL, Redis (Cache-Aside, TTL Invalidation), Schema Design & SQL Query Optimization
Cloud & Observability:	AWS (S3), Google Cloud (Cloud Run, Cloud SQL), Docker, GitHub Actions CI/CD, Linux, APM & Tracing
AI & Engineering:	Agentic AI Workflows (Claude/Cursor/Gemini, MCP), LLM Integration, Microservices, Clean Architecture

WORK EXPERIENCE

Backend Engineer | Rey.ID — Sep 2024 – Present

Healthtech & Insurtech Platform (Customer Policy & Claim Servicing) · Remote

- Owned end-to-end architecture, data consistency, and production reliability of core customer membership, policy underwriting, and automated claim-resolution microservices built in Go and Node.js (TypeScript/Express).
- Decomposed complex claim-triage and document workflows by migrating from a rate-limited third-party SaaS to an in-house microservice, eliminating 100% of vendor licensing costs and cutting customer document turnaround time by ~55%.
- Redesigned internal service-to-service API contracts from HTTP/JSON to gRPC and Protocol Buffers, reducing serialization overhead and cutting p95 inter-service latency by ~45% across high-volume operational flows.
- Tuned PostgreSQL/MySQL query execution plans and engineered a Redis cache-aside layer with targeted TTL invalidation for customer apps and internal ops consoles, cutting primary DB read load by ~60% (p95 latency < 80ms).
- Served as on-call reliability owner for backend services, instrumenting structured logging, APM metrics, and distributed tracing across Dockerized workloads to prevent incidents and reduce mean time to resolution (MTTR).
- Accelerated feature delivery and test coverage by integrating AI-augmented engineering workflows (agentic code generation, automated test scaffolding, and AI-assisted PR review) while enforcing strict API and security guardrails.

Backend Engineer (Intern) | Elemes ID — Dec 2023 – May 2024

Software Solutions & Digital Engineering Agency · Indonesia

- Engineered multi-service RESTful backends and internal operational consoles for client web and mobile platforms using Go (Fiber, Gin) and PostgreSQL, enforcing Clean Architecture boundaries.
- Designed normalized PostgreSQL schemas, composite indexes, and versioned database migrations to guarantee transactional data consistency across staging and production environments.
- Built a centralized authentication and authorization middleware layer using stateless JWTs (access/refresh token rotation) and granular Role-Based Access Control (RBAC) across multi-tenant client and agent endpoints.
- Standardized local and staging environments using multi-stage Docker builds and Docker Compose, cutting developer onboarding setup time to under 15 minutes and eliminating cross-team configuration drift.

SELECTED ENGINEERING SYSTEMS & PROJECTS

Vistr – AI-Powered Travel & Itinerary Recommendation Engine | Cloud & Backend Lead — Feb 2023 – Jul 2023

Bangkit Academy Capstone (Google, GoTo & Traveloka Track) · Stack: Node.js, Express, Python, GCP (Cloud Run, Cloud SQL)

- Designed the backend API gateway and relational persistence layer connecting mobile travel clients to Python ML inference services to generate personalized multi-day travel itineraries.
- Provisioned auto-scaling serverless containers on GCP Cloud Run backed by Cloud SQL and automated GitHub Actions CI/CD pipelines for zero-downtime releases.

Simpas – Workflow, Triage & Review Management Platform | Backend Engineer — 2022 – 2023

Production System for Institut Teknologi Kalimantan (ITK) · Stack: Node.js, Express, MySQL, React

- Architected a centralized submission, triage, and multi-stage review platform serving university faculty and reviewers, replacing manual paper-based institutional operations.
- Engineered a deterministic approval state machine, multi-role agent/reviewer consoles, and asynchronous document upload and status-tracking REST APIs.

Municipal Commodity Price & Survey Portal | Full-Stack Engineer — 2021 – 2022

Production System for Trade Department of Balikpapan City · Stack: Node.js, Laravel, MySQL, React

- Delivered a municipal field-survey and market price aggregation platform, digitizing regional commodity tracking and automating statistical report generation for city officials.
- Designed relational MySQL schemas and role-based reporting APIs to replace paper-based field data collection across city markets.

BullshitNotch – AI-Agent Developer Workflow Companion | Creator — 2024

Open-Source Developer Tool (github.com/ansxy/bullshit-notch) · Stack: Swift, SwiftUI, AppKit, Agentic AI

- Built a native macOS developer hub using agentic AI workflows to orchestrate pull requests, AI coding agents, and daily engineering shortcuts from a unified desktop interface.

EDUCATION, MENTORSHIP & CREDENTIALS

Kalimantan Institute of Technology (ITK) | Bachelor of Informatics Engineering — 2020 – 2024

- Bangkit Academy Graduate (Google, GoTo & Traveloka): Selected for the Cloud Computing cohort, collaborating across backend and ML teams to ship cloud-native travel infrastructure (2023).
- Technical Mentorship (Teaching Assistant, Programming & Algorithms): Mentored 100+ undergraduate engineers in algorithms, data structures, and clean code practices through pairing and code reviews (2020 – 2022).