

HUSNUL NAWAFIL

+62 822 4990 7755 ◇ Jakarta, Indonesia

nawafilhusnul@gmail.com ◇ linkedin.com/in/husnulnawafil ◇ github.com/nawafilhusnul

SUMMARY

Software Engineer with 3+ years of experience designing and operating distributed systems, data pipelines, and cloud-native applications using Go, Python, PostgreSQL, AWS, and GCP. Proven track record of improving system reliability, scalability, and security through event-driven architectures, observability, automation, and infrastructure-as-code. Experienced in leading critical production initiatives, solving complex engineering problems, and delivering measurable business impact in fast-paced environments.

EXPERIENCE

Software Engineer

Apr 2026 – present

Amptytic

London, United Kingdom (Remote from Indonesia)

A B2B analytics & AI platform for renewable-energy asset management, unifying financial, operational, and regulatory data with a RAG-based document assistant.

- Architected and rebuilt an event-driven regulatory-document ingestion platform using Pub/Sub, Cloud Run, Terraform, and PostgreSQL, restoring a critical production pipeline after a 2-month outage.
- Built a pipeline observability suite with freshness SLOs, validation checks, and centralized dashboards across 100+ ingestion configurations, reducing detection time for silent failures from weeks to seconds.
- Root-caused and resolved 88 production incidents across multiple services, eliminating false-positive alerts and improving API latency through PostgreSQL indexing and middleware optimization.
- Scaled the inbound email ingestion platform from a single tenant to all tenants, automating onboarding workflows and improving reliability with audit logging, alerting, and failure safeguards.
- Hardened multi-tenant database security by implementing Row-Level Security across publicly exposed tables and removing insecure access policies across client environments.

Backend Engineer

Jul 2022 – May 2026

FIT HUB

Jakarta, Indonesia

An Indonesian premium yet affordable gym & fitness platform offering access to 120+ locations, diverse classes and wellness services.

- Designed and implemented API rate-limiting middleware in Go, reducing OTP costs by 30% and preventing DDoS attacks.
- Refactored class schedule APIs and added unit tests, decreasing bugs by 80% and improving system reliability.
- Built an auto-assignment system for new leads and resigned sales, reducing SLA response times and enhancing customer experience.
- Reengineered the PT scheduling booking workflow to fix race conditions that allowed PT membership overbooking, preventing further company revenue loss and ensuring data consistency.
- Built an automated email notification system for PT session recaps, increasing transparency and helping prevent fraudulent PT session reporting.
- Developed a Lead Management System that contributed to gym membership sales growth by 30%.
- Implemented JWT-based authentication middleware, improving API security and reducing potential breaches by 50%.
- Collaborated with product and marketing teams to launch workout tutorials, driving a 30% rise in active monthly users.
- Improved system uptime through proactive incident resolution and performance monitoring.

TECHNICAL SKILLS

Languages	Go, Python, TypeScript, JavaScript (Node.js)
Databases	PostgreSQL, MySQL, Redis, Supabase, Qdrant
Cloud & DevOps	GCP, AWS, Docker, Terraform, GitHub Actions
Observability	OpenTelemetry, Cloud Monitoring, Cloud Trace
Tools & Workflow	Git, GitHub, OpenAPI, Linear, Slack
Methodologies	Agile, Scrum, Kanban
Concepts	System Design, Distributed Systems, Microservices, Event-Driven Architecture, Clean Architecture, SOLID Principles, RAG/LLM Applications

EDUCATION & TRAINING

Bachelor of Ocean Engineering, Bandung Institute of Technology (ITB)

Backend Engineering Bootcamp, Alterra Academy

Focused on Go, RESTful API design, MySQL, and Git.

PROJECTS

Sholat Reminder (VS Code Extension)

[Website](#) — [GitHub](#)

TypeScript – Built configurable pre-prayer reminders with dual notifications to help users manage prayer times efficiently.

ADDITIONAL INFORMATION

- **Certifications:** Jira Fundamentals (Atlassian), Agile in Jira (Atlassian), DevOps Fundamentals (Dicoding), Backend Engineer (Alterra Academy)
- **Leadership:** General Director, Ministry of Art and Culture ITB (2019–2020); Head of Soft Skills & Character Development, ITB (2020–2021)
- **Languages:** English (Professional), Indonesian (Native)