

Sy. M. Hidayatullah

Tech Lead | Engineering Manager

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PROFESSIONAL SUMMARY

Senior Backend Engineer with 10+ years of experience, transitioning into Tech Lead and Engineering Manager roles. Proven track record of leading technical direction on large-scale systems — including microservices migrations, high-throughput transaction platforms (IDR 2B+/day), and anti-fraud mechanisms. Experienced in mentoring engineers (2 junior engineers directly mentored), conducting technical interviews, and aligning engineering efforts with business goals. Skilled in setting technical standards, driving cross-functional collaboration, and leveraging AI-assisted development (Claude, ChatGPT) to improve team productivity.

LEADERSHIP & CORE COMPETENCIES

Leadership

- Technical roadmap ownership, architecture decision-making, and engineering standards definition
- Mentored 2 junior engineers — guiding code quality, system design thinking, and engineering best practices
- Conducted technical interviews for backend candidates — assessing system design, coding, and fundamentals
- Cross-functional collaboration with Product, Data Science, and QA teams on delivery planning and prioritisation
- Promoted clean architecture, unit testing, and API documentation culture across engineering teams

Technical Skills

Languages:	Go (primary), Java, PHP, JavaScript
Architecture:	Microservices, REST APIs, gRPC, Clean Architecture, Event-Driven Systems
Databases:	PostgreSQL, MySQL, Oracle, Redis, Google Datastore
Cloud & DevOps:	GCP, Docker, Kubernetes, CI/CD (Jenkins, GitLab CI)
Observability:	Datadog, Grafana, Scalyr, Metabase, VividCortex
AI-Assisted Dev:	Claude AI, ChatGPT

PROFESSIONAL EXPERIENCE

IDExpress Jakarta, Indonesia

Oct 2021 – Present

Senior Backend Engineer → Tech Lead Contributor

Technology-based logistics company. Acting as technical lead on key backend initiatives.

- **Owned architecture of financial systems:** COD collection and disbursement handling up to IDR 2B in daily collections and IDR 1B in daily disbursements
- **Mentored 2 junior engineers**, guiding them on system design, code quality standards, and backend development best practices
- **Spearheaded database migration** from MySQL to Google Datastore, improving scalability and reducing infrastructure costs — coordinating across engineering and infrastructure teams
- **Drove monolithic-to-microservices revamp**, improving deployment velocity and scalability; defined service boundaries and integration patterns
- **Designed notification service** (push + email) and pricing optimisation flow — overseeing end-to-end delivery from design to production
- **Contributed to anti-fraud mechanisms** for COD payments, reducing fraudulent transactions across the platform

- **Conducted technical interviews** for backend engineer candidates, evaluating system design, coding skills, and fundamentals
- **Introduced automated financial reporting**, eliminating manual effort and reducing human error in daily/monthly processes

Tokopedia Jakarta, Indonesia

Jun 2019 – Oct 2021

Backend Engineer

Southeast Asia's largest e-commerce unicorn. High-scale product categorisation and recommendation systems.

- **Achieved 5–10x latency reduction** on critical API endpoints through systematic performance profiling and optimisation
- **Collaborated with Data Science team** to build a product recommendation engine handling 300+ RPS
- **Built high-throughput categorisation pipelines** (60–300 jobs/sec), reducing miscategorised products by ~80%
- **Led migration of monolithic services** to microservices with clean architecture, unit tests, and full API documentation
- **Implemented A/B testing frameworks** supporting safe experimental feature rollouts

PT Hitachi eBworx Indonesia Jakarta, Indonesia

Mar 2016 – Jun 2019

Senior Software Engineer

Banking technology consulting firm.

- **Contributed to CIMB Niaga PLCC** — large-scale automated credit management system for unsecured loans and credit cards
- **Built scheduler services** for SLIK (financial information checks) and automated result uploads
- **Enhanced Digital Sales Engine (DSE)** via automated reprocessing of previously rejected applications

Digital Oasis / PT TabulasiAkurat Digivido Bandung, Indonesia

Jan 2015 – Mar 2016

Senior Programmer / Programmer

- Developed web platforms including culinary directory, eJournal management, and cloud-based payroll (PayrightSystem)

EDUCATION

Institut Teknologi Harapan Bangsa — Bandung, Indonesia

2015

Bachelor of Informatics Engineering (Software Engineering) | GPA: 3.14

Final Project: Novel hand sign language recognition — "16 Area Method"

CERTIFICATIONS & TRAINING

Oracle 10g: Administration Workshop I • Oracle University, Jan 2012

SAP Business Process Integration I – Configuration • SAP University Alliance Program, Nov 2011

SAP ERP with Global Bike Inc. v2.0 • SAP University Alliance Program, May 2011