Herdi Agusthio Putra Darmawan

Software Engineer (Backend)

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Professional Summary

Software Engineer with 8+ years of experience architecting and scaling backend systems in high-volume e-commerce and logistics environments. Proven expertise in Golang, large-scale cloud migrations, and system modernization. Formerly at Tokopedia/GTL, now at ByteDance, passionate about building modular, secure, and cost-efficient services that deliver measurable business impact.

Core Skills

Languages: Go
Infrastructure & Technologies: PostgreSQL, MySQL NSQ, Redis, CI/CD, Docker
Engineering Practices: System Architecture & Refactoring, Agile Methodologies

Selected Achievements

- Achieved up to **82.01%** infrastructure cost reduction by leading the migration of critical warehouse services from GCP to ByteCloud.
- Provided **1500+** sellers with real-time inventory visibility by leading the development of a self-service reporting feature, eliminating a 1-day SLA.
- Improved GIMS data processing to achieve >**99.9%** accuracy and reduce manual effort by **80%**.

Experience

ByteDance, Jakarta   *May 2024 – Present*
Software Engineer (Backend)

- As Service Owner, spearheaded the end-to-end migration of critical warehouse services from GCP to ByteCloud, achieving infrastructure cost reductions of **58.11%** and **82.01%** for key applications.
- Directed the assessment, code re-architecture, and execution for all migrations, ensuring **100% successful** cutovers in both staging and production environments.
- Initiated the implementation of Hertz clients for warehouse services, laying the foundational architecture for future performance enhancements and removal of the transit-proxy.

Tokopedia / GOTO Logistics (GTL), Jakarta   *Jan 2021 – May 2024*
Software Engineer (Backend)

- As Project PIC, led the "Inventory Tracking" project, providing 1500+ sellers with instant, self-service visibility into non-sellable stock and eliminating the previous 1-day SLA.
- Implemented inbound data differentiation in the DSI project, improving seller visibility and contributing to a potential monthly revenue increase of ~**70 million IDR** from more accurate storage fees.
- Enhanced GTL Inventory Management System (GIMS) data processing by validating Airflow pipelines and building a secure internal endpoint, achieving >**99.9%** data accuracy and reducing manual effort by **80%**.

Nusantara Baskara Jaya, Jakarta   *Nov 2016 – Dec 2021*
Backend Web Developer

- Developed and maintained multiple web applications for Telkomsel clients using Ruby on Rails, Laravel, and CodeIgniter.
- Integrated BNI payment gateway for the "I Loop Run 2019" event.
- Engineered and launched a secure login with OTP via email for the Ilmupedia platform.

Education

Alterra Academy – Advancing Career Program, Backend Golang   *1 Oct 2021 - 31 Oct 2021*
Bogor Agricultural University (IPB) – Bachelor of Computer Science   *Sept 2011 – Feb 2016*