

Glenn Steven

Software Engineer | Jakarta, ID

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Summary

Software Engineer with 4+ years of experience building high-scale systems in Golang. Focused on event-driven architecture, performance optimization, and resilient service design across fintech and digital products.

Tech Stack

- **Programming Languages:** Golang, PHP
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, OpenSearch
- **Message Queues:** RabbitMQ, Google Pub/Sub
- **DevOps & Tools:** Github Actions, Kubernetes, Linux, Datadog, Rollbar
- **Concepts & Backend Expertise:** Event-driven architecture, Concurrency (Goroutines), Role-Based Access Control (RBAC), Caching, Exponential Backoff, Image Processing, API Integration
- **Engineering Practices:** Unit Testing, Code Review, Agile/Scrum, CI/CD
- **Languages:** Indonesian (Native), English (Professional)

Professional Experience

Software Engineer - Bank Raya | Jakarta

Sept 2024 - Present

- Architected distributed recurring debit orchestration system processing scheduled savings transactions via cron scheduling and async workers with idempotent execution safeguards.
 - Designed retry and exponential backoff mechanisms to improve failed transaction recovery and ensure reliable debit execution.
 - Engineered async notification delivery pipeline for Saku Budget transaction success events using message broker, enabling fault-tolerant delivery for high-volume notification workloads and resilient message processing.
- Designed and implemented **RTGS transfer infrastructure** integrating with **Core Banking (UKO)** supporting secure high-value transaction processing.
 - Built **event-driven settlement processor** consuming middleware events to handle asynchronous success and failure updates, ensuring transaction ledger consistency across distributed systems.
 - Implemented **transaction validation, token authentication, and reconciliation pipelines** to support secure and reliable settlement processing.
- Engineered **MultiQRIS Cashier** platform implementing **RBAC authorization** supporting **1,500+ merchants** and **4,300+ NMIDs**, enabling secure multi-outlet cashier management and governed wallet access across balances exceeding **IDR 10B**.

- Built **event tracking ingestion API** maintaining **high availability (~99%)** and **low-latency response** performance supporting reliable analytics event collection across production workloads.
- Supported production financial systems through **monitoring, alert triaging, incident debugging**, and **performance diagnostics** across transaction services leveraging observability dashboards for service health and error analysis.

Backend Developer - Pusat Gadai Indonesia | Jakarta. *Aug 2023 - Sept 2024*

- Engineered an **image compression service** that reduced file sizes from ~10MB to ~400KB (**~96% reduction**) using **optimized processing pipelines**.
 - Improved image upload speed and significantly lowered **storage and bandwidth costs** across internal systems.
- Enhanced price calculation logic using **queue-based processing** in Laravel, optimizing execution time for **high-volume transactions**.
- Migrated **HRIS backend** from CodeIgniter to Laravel, improving **API performance** and **database architecture design**.
- Contributed to the development and maintenance of the **Sinar Mutiara backend system** supporting electronic goods sales operations.

Software Engineer - PT. Privy Identitas Digital | Yogyakarta. *Jan 2022 - Aug 2023*

- Rewrote daily reporting system from Ruby on Rails to Golang, **boosting execution speed by 70%** and fixing duplicate email issues.
- Developed and maintained various **backend services**, including **core services, integration services**, and **on-premises client systems**.
- Built **auto-verify registration feature (Dukcapil API + OCR + Fuzzy Logic)**, improving onboarding accuracy and reducing manual verification.
- Reintegrated **Login SDK** in Golang with **Redis caching** and Captcha mechanism, strengthening security against brute-force login attempts.
- Collaborated in Agile/Scrum ceremonies including sprint planning and retrospectives.

Education

Universitas Kristen Satya Wacana - Salatiga

Bachelor of Informatics Engineering | Aug 2018 - Oct 2022 | GPA: 3.83

- Assistant Lecturer (Programming, Introduction to IT).
- Treasurer & Student Representative, HMPTI (Himpunan Mahasiswa Teknik Informatika) (2019-2020)