

Paulus Bangun Kurnianto

Software Engineer

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Jakarta, Indonesia

SUMMARY

Software Engineer with 10+ years of experience building scalable backend systems and real-time services, specializing in Golang for payment gateways, banking integrations, and high-throughput APIs. Proven track record in system migration, distributed transactions, and service performance optimization. Experienced in leading teams and delivering critical payment infrastructure for millions of users.

PROJECTS

Internal Payment Gateway

- Tech Stack: Go, gRPC, MySQL, Redis, Kafka, Docker, Kubernetes, Elasticsearch
- Designed and developed multi-market payment gateway handling millions of daily transactions
- Integrated multi-bank API for credit card, direct debit, and virtual account payment channels
- Integrated bank statement automation for multiple regions, cutting reconciliation time by 80%

System Rewrite to Go

- Tech Stack: Go, Python, Java, gRPC, MySQL, Redis, Kafka
- Led migration of legacy Java and Python systems to Go, designing architecture and developing core services for improved performance, scalability and cost reduction

System Migration

- Tech Stack: Go, gRPC, MySQL, Redis, Kafka, Prometheus, Kubernetes
- Migrated critical payment services from cloud provider to in-house clusters, reducing annual operational costs from 480Mio

Database Sharding

- Tech Stack: Go, MySQL, Redis
- Design and implemented database shard to some channels payment system, significantly improve performance and prevent future bottleneck

EXPERIENCE

Expert Software Engineer, Shopee

Jan 2021 - Present | Greater Jakarta Area, Indonesia

- Lead development of virtual account, direct debit, credit card and reconciliation payment channel for Shopee market in Indonesia

Senior Software Engineer, Shopee

Jan 2020 - Des 2020 | Greater Jakarta Area, Indonesia

- Lead development of internal payment system for direct debit and credit card channel

EXPERIENCE

Software Engineer, Shopee

Jul 2019 - Des 2019 | Greater Jakarta Area, Indonesia

- Develop and maintain payment verification system for bank transfer

Senior Programmer, Gameloft Indonesia

Jan 2018 - Jun 2019 | Yogyakarta, Indonesia

- Develop, maintain and test video games and its online features into production ready using internal engine in C++
- Mentoring junior team member for game coding and game features

Programmer, Gameloft Indonesia

Mar 2015 - Jan 2018 | Yogyakarta, Indonesia

- Develop, maintain and test video games into production ready using internal engine in C++

EDUCATION

Bachelor's degree, Computer Science

Institut Pertanian Bogor

COURSES & CERTIFICATION

- Machine Learning - Andrew Ng (Coursera)