

# FAISAL LUMINTANG

Senior Backend Engineer Go · Distributed Systems · AI-Augmented Engineering

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## CORE SKILLS

### Language

- Go (Golang) — 7+ years

### Databases

- PostgreSQL · MySQL
- CockroachDB · YugabyteDB
- Redis · Elasticsearch

### Messaging & Streaming

- Kafka · NSQ

### API & Protocols

- gRPC / Protobuf
- REST APIs

### Platform & Infra

- Docker · Kubernetes
- AWS · ByteCloud
- CI/CD · GitOps

### AI & Automation

- TTADK · Trae
- LLM / MCP integration
- Automated incident response

## SIDE PROJECTS

### OPTCG Tracker

[optcg.faisalmerfin.dev](https://optcg.faisalmerfin.dev)

AI card scanning + Supabase  
+ Telegram bot

### Health Dashboard

[health.faisalmerfin.dev](https://health.faisalmerfin.dev)

AI agent via Telegram →  
Notion → live dashboard

## LANGUAGES

- English — Fluent
- Indonesian — Native

## EDUCATION

### B.Sc. Computer Science

BINUS University  
2012–2016 · GPA 3.6

## CERTIFICATIONS

- Developing on AWS (2020)
- Architecting on AWS (2020)
- Forward Business Agility

## PROFILE

Senior Backend Engineer with **7+ years** building high-throughput distributed systems in Go at Tokopedia and ByteDance — serving **100M+ MAU** across Southeast Asia. Designed and owned core transaction infrastructure processing **1M+ orders daily** at **99.99% uptime**. Led a team of 6 engineers delivering shared transaction platform that cut new-business launch from months to weeks. Completed two zero-downtime cloud migrations of **10+TB** of order data. Uses AI tooling in production — MCP integrations, automated incident response, AI-accelerated development covering **~80%** of implementation. Author of **4 published technical inventions**.

## EXPERIENCE

### Senior Software Engineer · ByteDance (Tokopedia) Feb 2024 – Present

- ▶ Continuing ownership of Tokopedia's Shopping Flow services — marketplace cart, checkout, wishlist, and UOH — post-acquisition, serving **100M+ MAU**.
- ▶ Uses TTADK (TikTok AI Development Kit) and Trae daily for AI-assisted development — AI now handles **~80%** of implementation including unit tests; engineering focus shifted to system design and code review.
- ▶ Configured MCP (Model Context Protocol) integration connecting LLMs to checkout and order APIs — enabling AI-driven debugging. Combined with automated monitoring, the system detects anomalies, diagnoses downstream failures, and **auto-assembles on-call engineers in a Lark channel** without human intervention.
- ▶ Completed zero-downtime AWS → ByteCloud migration of all Shopping Flow services and **10+TB** of order data — the second of two major cloud migrations (following Ali → AWS during GOTO IPO).

### Lead Software Engineer (GTP) · Tokopedia Jul 2023 – Feb 2024

- ▶ Led the General Transaction Platform (GTP) — a team of **6 engineers** owning shared cart-checkout-order infrastructure for **20+ non-marketplace business verticals** (Umrah, Food, Gifting, and others) built on 5 Go microservices.
- ▶ Config-driven platform design reduced new-business onboarding from **months to weeks** — most new verticals required zero custom code.
- ▶ Maintained UOH at **300 RPS** and **1M+ new orders per day** via multi-layer redundancy (ES + Redis fallback, MQ retry with circuit breakers, cron consumers) achieving **99.99% uptime**.

### Senior Software Engineer · Tokopedia Jul 2021 – Jul 2023

- ▶ Core contributor in a team of 6 designing UOH from scratch — consolidating **30+ business verticals** at **300 RPS** and **1M+ orders/day** for **100M+ MAU**.
- ▶ Reduced marketplace cart page latency from **>6s** → **~3s** (50% improvement) via query optimisation and caching strategy.
- ▶ Mentored and onboarded **6 engineers**; drove code-quality culture through structured reviews and ATDD.

### Software engineer · Tokopedia May 2019 – Jul 2021

- ▶ Built Transactionapp FSM engine and delivered UOH v1, unifying all Tokopedia order types. Integrated Shariah-compliant (Umrah) flows and built ATDD framework adopted team-wide.
- ▶ Participated in Ali → AWS migration of all Shopping Flow services during GOTO IPO.

### Full Stack Engineer · PT. Digerati Atomic Indonesia May 2016 – Apr 2019

- ▶ Delivered 7 client projects (POS, B2B, manufacturing apps) across PHP Laravel, React, Angular, C#/.NET — built strong foundations in API design and end-to-end delivery.

## INVENTIONS & PUBLICATIONS (TOKOPEDIA / BYTEDANCE)

### 4 invention publications filed:

- ▶ Achieving High Availability Using Multiple Data Store in Transaction List
- ▶ Handling Multiple Update Requests to Frequently Updated Data Using Duplicate & Stale Checker
- ▶ Unified Order List System
- ▶ Centralized Multiple Products & Services Order State Management and Notification Systems