

Michael Ryan

Senior / Staff Engineer, Backend & Platform

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SUMMARY

Backend and platform engineer with 10+ years shipping Go, Ruby and Kotlin services across digital banking, e-commerce and government. I design for boring operability: clear contracts, tight test coverage, observable systems. Recent work is a payroll system and an access-management platform, both hands-on end to end.

SKILLS

Languages: Go, Ruby, Kotlin, Python, SQL

Services: Spring Boot, REST, microservices, PostgreSQL, Redis, MySQL

Platform: Kubernetes, Docker, Terraform, GCP, CI/CD

Practice: parameterised testing, code review, incident response, mentoring

EXPERIENCE

Staff Engineer

Feb 2025 – present

PT Dkatalis Digital Lab, Auckland, remote to Jakarta (Full-time)

- Owned end-to-end delivery of a new payroll system, now live in production and adopted by customers.
- Architected the database layer for a Google Drive-style access management system, integrating Ory for auth and authorisation.
- Reduced backend test duplication and improved coverage by introducing parameterised testing with JUnit5.

Engineering Manager / Tech Lead (Hands-On)

Oct 2022 – Dec 2024

Govtech Edu Indonesia, Jakarta, Indonesia (Full-time)

- Designed and developed microservices for a Self-serve Data Quality Management system with BigQuery integration.
- Led a re-architecture from PostgreSQL to BigQuery and implemented a message broker, improving data quality from 80% to 92% while reducing latency.

Engineering Manager (Hands-On)

Apr 2021 – Oct 2022

Bukalapak.com, Jakarta, Indonesia (Full-time)

- Led the ClickHouse project, reducing MySQL query times from constant timeouts to under 1 second.
- Optimised resource usage to 40–60% CPU/memory range, improving overall system performance by 20%.

EXPERIENCE (CONTINUED)

Technical Lead (Hands-On)

July 2019 – Apr 2021

Bukalapak.com, Jakarta, Indonesia (Full-time)

- Led the Facebook Ads Discrepancies project, reducing data mismatches for 400,000 products from 70% to 20% and driving a 15–18% revenue increase.
- Mentored 3 junior engineers, all of whom advanced to mid-level within one year.

Software Engineer

Mar 2017 – July 2019

Bukalapak.com, Jakarta, Indonesia (Full-time)

- Achieved a 99% SLO by implementing proper monitoring, alerting, and testing procedures.
- Created 3–5 microservices to replace a monolithic service, improving deployment speed, scalability, and fault isolation.

Software Developer

Apr 2015 – Mar 2017

Liberty Jaya, Jakarta, Indonesia (Full-time)

- Developed and maintained internal tools to support business operations of clients, improving workflow efficiency and automation.

PROJECTS

Flick

Active

High-throughput feature-flag service: roll out to a deterministic % of users without a deploy.

Go, gRPC, REST

JsonTool

Active

Client-side JSON toolkit: beautify, minify, filter, and convert to CSV. Zero dependencies.

HTML, JavaScript

Local LLM Workbench

Active

Research and testing harness for running and evaluating self-hosted LLMs.

Python, Ollama

EDUCATION

S. TI (BSc) Computer Science, Bina Nusantara, Indonesia

2011 – 2015