

M. ADYAN ROHUTOMO

Backend Developer

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PROFESSIONAL SUMMARY

Backend Developer with 4 years of experience specializing in requirement analysis, project planning, development, debugging, testing, deployment, and monitoring of scalable and reliable backend systems. Passionate about utilizing Go and JavaScript to solve complex problems and deliver high quality solutions.

TECHNICAL SKILLS

Languages: Go, JavaScript (Node.js), TypeScript, Python

Databases: MySQL, PostgreSQL, MongoDB, Redis

Frameworks: Echo, Gin, Express, Nest.js

ORM: GORM, Sequelize, TypeORM, Knex

Version Control: Git, GitHub, GitLab, Bitbucket

Cloud: Google Cloud Platform, AWS

Message Brokers: RabbitMQ, Google Pub/Sub, NSQ

Unit Testing: Mockery, Mockgen, Jest

Monitoring: New Relic, Grafana, Prometheus, Loki, OpenTelemetry

CI/CD: Jenkins, GitHub Actions, Terraform

Other: RESTful API, GraphQL, gRPC, Microservices, Hasura, Docker, Feature Flags, Claude Code

KEY ACHIEVEMENTS

- **Backend Rewrite (Laravel to Go):** Rewrote Search Array's production API (search-array.com, ~46K users, ~20M requests/month) from Laravel/PHP to Go: average latency ~80 ms to ~16 ms, p95 ~200 ms to ~55 ms, 5xx errors -99% on the same hardware; then downsized EC2 from t3.xlarge (t3.2xlarge at peaks) to t3.medium (-75% cost).
- **Rollback Time Reduction:** Introduced Feature Flag implementation, enabling zero downtime deployments and reducing rollback time from 4 hours to 1 minute, improving release velocity.
- **GMV Growth:** Successfully integrated Tokopedia and TikTok Shop promotion system, driving an 11% increase in GMV and a 9.6% boost in GMV per Unique Visitor.
- **CVR Growth:** Successfully integrated Tokopedia and TikTok Shop promotion system, increasing the conversion rate of users engaging with promotions by 1.97%.
- **UV CVR Growth:** Successfully implemented Free Shipping entity into Promotion Voucher, leading to a 7.15% increase for checkout to order and 11.29% for promo page to order in Tokopedia regular checkout flow UV CVR.

PROFESSIONAL EXPERIENCE

Senior Backend Engineer

Sera Creative Studio, Full Time Remote | Jun 2025 to Present

- Architected and implemented comprehensive SDLC practices, establishing development pipelines from project initiation through deployment and monitoring. Introduced Feature Flag implementation, enabling zero downtime deployments and reducing rollback time from 4 hours to 1 minute, improving release velocity.
- Designed and maintained AWS cloud infrastructure optimized for high availability and cost efficiency. Led successful migration to auto scaling architecture, achieving 99.9% uptime while reducing infrastructure costs. Infrastructure now supports 85 concurrent users during peak loads.
- Rewrote the production backend of Search Array (search-array.com), a Japanese trading-card search platform with ~46K registered users, ~20M requests/month, and 45+ RPS peaks, from Laravel/PHP to Go (Echo, Clean Architecture, GORM/PostgreSQL, Redis, Prometheus, OpenTelemetry), delivering 231 endpoints with verified response parity against Laravel (20/20 endpoints, 25/28 byte-identical) and releasing to production through a feature flag gated cutover.
- Cut average API latency from ~80 ms to ~16 ms (-80%), p95 from ~200 ms to ~55 ms (-73%), p99 from ~300 ms to ~100 ms, and 5xx error rate from 0.3% to 0.001%, measured on the production load balancer before and after cutover.
- Right-sized production compute from t3.xlarge (t3.2xlarge at peaks) to t3.medium with 4x less CPU and RAM, cutting instance cost ~75% (~\$159 to ~\$40/month) with under 1 minute of downtime; p95 stays under 90 ms at 8-9% CPU.

- Established comprehensive observability framework using Grafana, implementing distributed tracing, centralized logging, and metrics collection across 4 projects. Reduced mean time to resolution (MTTR) for production issues, directly improving customer satisfaction scores.
- Drove cross functional collaboration by partnering with Product Managers for requirements gathering and sprint planning, and working closely with QA teams to establish testing protocols and accelerate debugging cycles, reducing bug resolution time.
- Mentored 3 engineers through knowledge sharing sessions on software architecture, system design patterns, AWS best practices, and modern tooling adoption, accelerating the team's technical capabilities and reducing onboarding time to only 1 day.
- Pioneered AI assisted development workflows, integrating AI agents into the development lifecycle for automated code generation, peer review assistance, and commit optimization, improving development velocity and code quality metrics.
- Delivered 10 scalable backend solutions for 10 clients using diverse technology stacks including GraphQL, REST APIs, Go, Node.js, PostgreSQL, Redis, and S3. Solutions processed daily transactions and supported business growth.
- Standardized CI/CD pipelines across 5 projects using GitHub Actions, implementing automated testing, building, deployment, and Slack notifications. Increased deployment frequency while maintaining a 90% deployment success rate.

Software Engineer, Backend

Tokopedia, Full Time Onsite | Jul 2023 to Jun 2025

- Crafted assessments, formulated high level strategies, and created detailed technical plans.
- Developed, debugged, tested, and maintained backend applications for the Tokopedia App within the Promotion Tribe.
- Predominantly collaborated with the TikTok Shop team to integrate promotion systems.
- Utilized technologies such as Go, REST, gRPC, PostgreSQL, Redis, NSQ, New Relic, and Jenkins.

Founding Backend Engineer

Katalis AI, Part Time Remote | Nov 2023 to Jun 2025

- Took the lead as the initiator to establish the backend system from the ground up.
- Responsible for crafting assessments, devising high level strategies, and outlining comprehensive technical blueprints.
- Developed, debugged, tested, deployed, and monitored backend applications for the Katalis AI App (katalis.ai), which aids companies in optimizing and enhancing their digital and marketing content through AI technology.
- Employed a range of technologies including Go, REST, PostgreSQL, Redis, GitHub Actions, and Grafana.

Backend Initiator

Solarchapter, Freelance Remote | Apr 2023 to Oct 2023

- Engaged in the development of the WaterIQ App (wateriq.solarchapter.com), an IoT system aimed at monitoring and analyzing water systems in rural Indonesian regions. As the pioneer, spearheaded the creation of the backend infrastructure from inception.
- Responsibilities encompassed formulating assessments, devising strategic approaches, and meticulously planning technical implementations.
- Specialized in the complete lifecycle of backend application development, from coding and debugging to testing, deployment, and monitoring. Utilized technologies such as Go, REST, PostgreSQL, Redis, and Cron to drive the success of this project.

Backend Developer

Work Life And Beyond, Full Time Remote | Feb 2023 to Apr 2023

- Responsible for the development of the backend application for the Human Capital Ecosystem App, employing technologies such as Go, GraphQL, Hasura, PostgreSQL, RabbitMQ, Gin, and GORM.

Backend Developer

Refactory, Full Time Onsite | Mar 2022 to Feb 2023

- Involved in developing backend applications for various projects including Lion Parcel, Lemonilo, and Jaklingko. These projects utilized technologies such as Go, REST, MySQL, PostgreSQL, Redis, Pub/Sub, Echo, GORM, gRPC, and GraphQL.

EDUCATION

Eduwork WebDev Bootcamp, Yogyakarta | 2021 to 2022

Purwadhika Coding School, Jakarta | 2019 to 2020

MH Thamrin University, Jakarta | 2013 to 2017