ALIM IKEGAMI
BACKEND ENGINEER

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Backend Engineer specialized in Go, with a proven record in performance optimization and experience building CI/CD pipelines and implementing observability tools. Always eager to learn new technologies and adopt better practices.

WORK EXPERIENCE

Backend Engineer at Avatar Solutions
May 2023 – Dec 2024 (Full-time), Jan 2025 - May 2025 (Part-time)
- Collaboratively designing and implementing backend APIs mainly with Go, Redis, Docker, MariaDB, and MySQL, while maintaining older projects with CodeIgniter. I have also worked with Node.js for small feature updates on an existing project
- Spearheaded the implementation of centralized logging using Grafana, Loki, and Promtail, **improving issue diagnosis** by consolidating logs from multiple APIs into a single dashboard
- Leveraged database indexing to reduce reporting query times by **up to 39%** for one of Bali's largest tourism destination ticketing systems
- Optimized the Excel report exporting functionality, **reducing export time** for one of Bali's largest tourism destination ticketing systems
- Transitioned API documentation from Google Docs to Swaggo, **streamlining the documentation process** and **ensuring consistency** across projects by generating OpenAPI-compliant Swagger documentation directly from code annotations
- Responsible for integrating third-party APIs, including payment gateways
- Responsible for daily DevOps tasks, including server configuration and creating CI/CD pipelines using GitHub Actions

Backend Engineer Intern at Avatar Solutions
Sept 2022 – Oct 2022
- Led a team of backend engineering interns to develop a REST API using Golang and Docker for a proof-of-concept application

Part-time Full Stack Developer at Avatar Solutions
Jan 2022 – Mar 2022
- Implemented a REST API using Node.js and a frontend web application using React.js
- Managing the deployment of both an API and a frontend web application using Docker

Backend Engineer (Volunteer) at PEMIRA FMIPA UDAYANA
Oct 2021 – Dec 2021
- Adding and updating features on an existing voting system written in Laravel for BEM FMIPA Udayana's Chairman Election

PROJECTS

OpenTelemetry-Go Contrib (1.4K+ Stars Open Source Project)

Worked on otelhttp package in OpenTelemetry-Go Contrib. Its Transport implements the http.RoundTripper interface and wraps outbound HTTP(S) requests with a span and enriches them with metrics. Fixed a bug where some client metrics were not recorded during errors on transport round trip, and added tests to ensure the fix.

POS Microservices

Developed a microservices-based Point-of-Sales system as an experimental project to learn about microservice architecture. This system includes three main services: User, Product, and Order. Built with Go, PostgreSQL, MongoDB, Elasticsearch, and Kafka, with gRPC and message queues for inter-service communication. The services are managed with Kong (DB-less) as the API gateway and are deployed locally on Kubernetes (Minikube), with Midtrans integrated for payments. All services use OpenTelemetry to generate traces, which are collected and visualized in Jaeger. Metrics are collected with Prometheus and visualized in Grafana. Logs are collected with Promtail, stored in Loki, and visualized in Grafana. Service communication is secured with mTLS enforced by

Istio.

[Macaiki REST API](#)

Macaiki is an online forum where we can create threads to discuss anything. This project was completed as my submission for the Capstone Project assignment in Alterra Academy's Studi Independen. This project was created using Go, MySQL, Docker, and AWS.

SKILLS

Languages & Frameworks: Golang, Node.js, PHP (Laravel, CodeIgniter), C++, Java

Databases: MySQL, MariaDB, Redis

DevOps & Tools: Docker, GitHub Actions, Nginx, AWS

Monitoring & Logging: Grafana, Loki, Promtail, OpenTelemetry, Jaeger

Other: REST API, WebSocket

EDUCATION

Udayana University   2019 - 2023
Bachelor of Computer Science
- 3.96 GPA
- Awards: 3rd Place in Udayana's Software Development Competition (INVENTION 2021), Semi-finalist in Data Analytics Competition (DAC) 2021 By PRS ITS, 2021 Technoscape Hackathon Participant By BNCC Binus
- Member of the Student Innovation Centre's Engineering Division
- Selected to participate in the "Become a Master of Golang Programming" Apprenticeship at Alterra Academy for 6 months as one of the programs in Merdeka Belajar Kampus Merdeka (MBKM) 2022