

MUHAMAD RYAN ADI WIGUNA

Backend Engineer | Golang | Microservices | Distributed Systems

ryan.adi911@gmail.com | (+62) 85729000307

LinkedIn: [linkedin.com/in/ryanadi20](https://www.linkedin.com/in/ryanadi20) | GitHub: github.com/RyanAdiW

PROFESSIONAL SUMMARY

Backend Engineer with 4+ years of experience specializing in Golang and distributed systems. Proven track record in building scalable microservices, optimizing database performance, and integrating high-impact systems such as payment gateways and asynchronous data pipelines. Strong foundation in system design, performance optimization, and data-driven problem solving.

TECHNICAL SKILLS

Languages: Golang

Databases: PostgreSQL, MongoDB, MySQL

Architecture: Microservices, Clean Architecture

Messaging & Caching: Redis, RabbitMQ, Pub/Sub

Tools: Docker, Git, REST API, gRPC, Unit Testing

PROFESSIONAL EXPERIENCE

PT MSBU Konsultan Indonesia (Assigned to eDOT) – Bandung, Indonesia

Backend Developer (Consultant) | Sep 2025 – May 2026

- Built and maintained scalable microservices using Golang and gRPC.
 - Designed and optimized relational (PostgreSQL) and non-relational (MongoDB) databases to support high-volume operations.
 - Improved system performance by implementing caching strategies using Redis, reducing database load and response latency.
 - Optimized SQL and NoSQL queries through indexing and aggregation techniques, improving query efficiency.
 - Integrated APIs across multiple business domains, ensuring seamless communication between distributed services.
 - Implemented unit and integration tests to maintain system reliability and code quality.
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PT Benih Investasi Teknologi (SEEDS) – Jakarta, Indonesia

Backend Developer | May 2023 – Sep 2025

- Developed and maintained backend services using Golang for a multi-asset social investing platform.
 - Designed and managed PostgreSQL databases to support transactional and financial data processing.
 - Integrated third-party payment gateways, ensuring secure and reliable transaction handling.
 - Built asynchronous processing systems using Pub/Sub and Redis to support scalable event-driven architecture.
 - Collaborated with cross-functional teams to deliver high-quality, production-ready features.
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PT Lingkar Niaga Solusindo (SIRCLO) – Tangerang, Indonesia

Junior Software Engineer – Backend | Apr 2022 – Apr 2023

- Developed backend services using Golang to support e-commerce platform operations.

- Managed PostgreSQL databases and ensured data consistency across services.
 - Integrated third-party logistics and payment systems to streamline order processing.
 - Contributed to system reliability through structured testing and debugging practices.
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PROJECTS

Agri-Assist (Personal Project)

- Designed and developed a backend system for agriculture decision support using Golang.
 - Built rule-based disease detection to help farmers identify crop issues early.
 - Planned integration with weather and crop data to enable predictive insights for farming decisions.
 - Architected scalable backend system using PostgreSQL and modular service design.
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EDUCATION

SIRCLO x Alterra Academy – Backend Developer Bootcamp

Dec 2021 – Mar 2022

- Focus: Programming, Data Structures, Databases, REST API, Deployment
- Final Project: Built "E-Assets" – an asset management REST API using Golang

Universitas Indonesia – Bachelor of Science in Physics

Aug 2017 – Aug 2021

- Minor: Instrumentation Physics
 - Laboratory Assistant: Embedded Systems & Digital Electronics
 - Software Engineer: UI Robotics Team
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LANGUAGES

- Bahasa Indonesia: Native
 - English: Professional Working Proficiency (IELTS 6.5)
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