

MOHAMMAD ALI RIDO

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SUMMARY

Senior Software Engineer with 7+ years building high-volume, correctness-critical systems across payments, e-commerce, and logistics. Specialized in payment infrastructure with deep experience in data consistency, idempotency, concurrency control and race-condition mitigation. Core stack: Go, Ruby on Rails, PostgreSQL/MySQL, Redis, Kafka, gRPC, Docker, and Google Cloud, with Next.js on the frontend. Strong emphasis on scalable architecture, system integrations, and production reliability.

PROFESSIONAL EXPERIENCE

Senior Backend Engineer | HubOn & HubShop

Jan 2022 - Present

- Designed, built, and maintained backend APIs for logistics and e-commerce core workflows using Ruby on Rails.
- Improved database scalability and performance through MySQL schema design, query tuning, and indexing optimization.
- Architected and implemented marketplace search infrastructure using Meilisearch, including faceted filtering across categories, price, and seller attributes with Sidekiq-driven async indexing.
- Integrated third-party services for authentication, geocoding, payments, storage, ZIP processing, and notifications across email, SMS, and mobile push.
- Developed secure external REST APIs for partners and vendors using signature-based request validation.
- Strengthened application security, reliability, and engineering quality through improved error handling, middleware, test coverage, linting, and formatting standards.
- Refactored backend services to improve performance, reduce API latency, and resolve race conditions in critical concurrent workflows.
- Implemented CI/CD workflows to accelerate deployment speed and reduce manual effort in the release process.

Fullstack Developer | Gardeneur

Mar 2021 - Jan 2022

- Built and maintained backend APIs that supported business workflows and customer-facing features using Ruby on Rails.
- Developed landing page and checkout flow interfaces using React.js.
- Improved MySQL schema design, query performance, and indexing to support application growth.
- Refactored service logic into reusable modules to improve maintainability and reduce duplication.
- Investigated production issues, resolved bugs, and supported releases across application and database layers.

Backend Developer | Fazz Financial Group

Apr 2021 - May 2023

- Built and maintained backend APIs for e-wallet core business features using Ruby on Rails.
- Developed QRIS functionality for the company's e-wallet mobile application.
- Optimized MySQL schema design and query performance to support high-volume, latency-sensitive transaction processing across QRIS and e-wallet payment workflows.
- Integrated third-party services including QRIS, OCR, government verification, storage, and notifications.
- Refactored backend services to reduce latency, improve performance, and resolve race conditions in transaction-related workflows.
- Investigated production issues, resolved bugs, and supported releases across application and database layers.

Full Stack Developer | PT Rekadia Solusi Teknologi

Oct 2019 - Jan 2021

- Built and maintained backend APIs for LMS, SIS, and lecturer evaluation system core features using Laravel.

- Expanded dashboard and reporting interfaces for university systems using AngularJS.
- Investigated production issues, resolved bugs, and patched releases across application and database layers.

Backend Developer (Internship) | Hipe ID

Jul 2018 - Aug 2018

- Developed REST APIs for ride-hailing insurance system core features using Node.js.
- Configured Google Cloud Platform services for storage and production deployment.

Backend Developer (Internship) | Alodokter

Feb 2017 - Apr 2017

- Optimized RESTful APIs for Digital Health Platform core identity domain features.

SELECTED PROJECTS

QUALS: Sport Platform | Go, Next.js, TypeScript, PostgreSQL, gRPC, OAuth2, JWT, Docker

- Architected a Go microservices backend (API gateway, identity, and sport domain services) communicating internally via gRPC, with PostgreSQL and Redis, and implemented OAuth2/JWT authentication including Google OAuth login.
- Built the Next.js/TypeScript frontend with server actions, consuming the backend API gateway.
- Set up production error monitoring with Sentry and managed containerized deployments across Railway and Vercel.

3D House Experience | Next.js, TypeScript, Tailwind, React Three Fiber

- Built an interactive 3D portfolio experience using Next.js, Tailwind CSS, and React Three Fiber, with PWA support for a more immersive web experience.

Matamaduranews: News Media | WordPress, PHP, HTML, CSS, JavaScript

- Developed additional UI components and features to support business workflows and customer-facing experiences.

NOIE: Fashion E-Commerce | Laravel, PHP

- Built a fashion-specific e-commerce website using Laravel.

AMERTA: ITB Student Association | WordPress, PHP, HTML, CSS, JavaScript

- Developed a personal development dashboard for ARCHAEA, one of the student associations at ITB.

TECHNICAL SKILLS

Languages: Go, Ruby, PHP, SQL, JavaScript, TypeScript, HTML, CSS, Java, Python, C++, C#, C

Frameworks: Ruby on Rails, Gin, Next.js, Laravel, Node.js, Express.js, React.js, AngularJS

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud / DevOps: Google Cloud Run, Cloud SQL, Docker, CI/CD, Kubernetes, AWS, Azure

Tools: Git, gRPC, Postman, Swagger / OpenAPI, Linux, Message Broker (RabbitMQ, Kafka), Artificial Intelligence Applications

Core Strengths: Problem-solving, Analytical thinking, Critical Thinking, Project Management

EDUCATION

Bandung Institute of Technology (ITB) | Computer Science | 2020

ACHIEVEMENTS

- **OSN Delegation 2024** — Represented East Java Province at the National Science Olympiad in Mataram, West Nusa Tenggara.
- **Finalist**, Programming Contest in Competition of Technology (COMPTECH) 2018 — National Level, Institut Teknologi Sumatera.
- **1st Place**, Olimpiade Matematika Kanjuruhan (OMIKA) 2014 — Provincial Level, Universitas Kanjuruhan Malang.

- **1st Place**, Olimpiade Matematika UNIPDU 2014 — Provincial Level, UNIPDU, Jombang.
- **4th Place**, Mathematics and Logic Competition 2014 — National Level, Universitas Airlangga, Surabaya.
- **4th Place**, Mathematics Competition Revolution (MCR) 2014 — National Level, Universitas Negeri Surabaya.

CERTIFICATIONS

- **Introduction to Algorithm and Data Structures in C++** — UDEMY, 2018.
- **Web Development Using Django Framework for Python** — NITHYA BHASKARA WIDYA FOUNDATION, 2017.