

MUHAMMAD MEGANATA ADAM

Software Engineer

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PROFESSIONAL SUMMARY

Fullstack engineer with 5+ years shipping payment systems, real-time services, and multi-tenant platforms for companies in Indonesia and Japan. My core stack is PHP, Go, and TypeScript, and lately I have been building AI agents and RAG pipelines. I write about what I build.

TECHNICAL SKILLS

Languages: PHP, JavaScript / TypeScript, SQL, Go, Python

Frameworks: Laravel / Lumen, NestJS, ExpressJS / Fastify, ElysiaJS, Vue.js

Databases & Caching: PostgreSQL, MySQL, Redis, MongoDB, Firebase Firestore

API & Architecture: REST API design, Swagger / OpenAPI, GraphQL, gRPC, Semi-microservices, multi-tenant

AI & Agents: MCP (Model Context Protocol), AI agents & agentic workflows,

LLM integration (OpenAI, Anthropic), RAG

Integrations: Payments (Xendit, Midtrans, Stripe, IPay88), Messaging (Twilio, WhatsApp API),

Email (Brevo, MailGun), Logistics (JNE, Google Maps API), Realtime (Socket.IO, Firebase FCM)

Cloud & DevOps: Docker, Git (GitHub, Bitbucket), GitHub Actions, AWS (S3, SQS), NGINX, Laravel Vapor

Auth & Quality: OAuth2 / OIDC single sign-on, MFA and OTP delivery, RBAC, Query profiling & optimisation,

PHPUnit, unit testing

PROFESSIONAL EXPERIENCE

Motocle, Inc.

Apr 2025 – Present

Full-stack Developer (Freelance)

Fukuoka, Japan (Remote)

- Built new booking and customer-registration features for a veterinary-clinic system, streamlining appointment scheduling and client onboarding.
- Integrated the Smaregi Point of Sale system to unify in-clinic transactions with the platform.
- Implemented a Retrieval-Augmented Generation feature to surface relevant clinical information from clinic data.
- Diagnosed and fixed bugs across the clinic system, improving stability and reliability.

PT Kreatif Transportasi Gemilang (Get And Ride)

Nov 2023 – Present

Senior Software Engineer

Jakarta, Indonesia

- Developed a real-time chat API service for web and mobile applications using WebSocket and Redis, enhancing user engagement.
- Implemented a secure payment feature using the Midtrans payment gateway, streamlining product transactions and driving revenue growth.
- Developed a comprehensive voucher system that streamlined payments and significantly increased sales conversion rates.
- Engineered a new driver platform for order task management, earnings tracking, and profile administration.
- Designed and implemented a new airport shuttle service connecting airports to city destinations, expanding service offerings.
- Resolved critical timezone synchronization issues so users receive accurate times based on their location.

ASABA INNOTECH

Nov 2022 – Jul 2024

Senior Full Stack Engineer

Jakarta, Indonesia

- Developed and deployed an Omni Channel Order Management System (OMS) that streamlined order processing.
- Engineered a robust Sales Force Automation platform (SFA) that enhanced field sales operations and team productivity.
- Designed and implemented a centralized notification system for internal projects across multiple platforms.
- Built a data integration service that synchronizes critical business data from SAP to internal applications.

KB Finansia Multi Finance

May 2022 – Nov 2022

Backend Engineer

Jakarta, Indonesia

- Developed the B2B API project "Join Finance".

- PT Alfath Teknologi Kreatif** Feb 2022 – Apr 2022
Full Stack Developer (Contract) Malang, Indonesia
- Built a Point of Sale application for PT SMI GROUP using Laravel, optimising queries and database indexing for performance. Used by roughly 50 outlets across Indonesia.
- Esteh Creative** Dec 2021 – Apr 2022
Full Stack Developer (Contract) Malang, Indonesia
- Integrated the Finpay Emoney payment system into an e-commerce website for seamless, secure transactions.
 - Refactored legacy code and optimised data queries, making the application 30% faster and easier to maintain.
- PT Datamax Teknologi Internasional** Apr 2021 – Dec 2021
Back End Developer Malang, Indonesia
- Migrated the backend from PHP to Golang, improving application performance by 50%.
 - Integrated delivery services using Gosend, JNT, and JNE, adding 500 new users.
- Remote Worker Indonesia** Sep 2021 – Oct 2021
Backend Developer (Contract) Yogyakarta, Indonesia
- Built the REST API and admin dashboard for the mobile app of PUSAT PELATIHAN PERTANIAN BPPSDMP - KEMENTAN.
- PT. Ergossum Sukses Makmur** Aug 2020 – Feb 2021
Full-stack Developer Malang, Indonesia
- Doolen: API creation, frontend integration, and Xendit payment gateway integration for a cooking-ingredients e-commerce website.
 - Esusmart: API creation, frontend integration, and Xendit payment gateway integration for a cooking-ingredients e-commerce website.
 - Froya: API creation and frontend integration for a processed-chicken e-commerce website.

EDUCATION

- Maulana Malik Ibrahim State Islamic University** Jul 2018 – Dec 2022
BS, Computer Science Malang, Indonesia
GPA 3.6 / 4.0