

Muhammad Hassan Naufal Zayyan

Backend Developer

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PROFESSIONAL SUMMARY

Backend Developer who builds and deploys Laravel (PHP) systems with PostgreSQL, MySQL, Docker, and GitHub Actions. Delivered three systems for local government, from database design and REST APIs to deployment and production support: a public telecom-infrastructure map for Diskominfo Kabupaten Semarang and attendance platforms for two village offices. D3 Informatics Engineering graduate (GPA 3.86/4.00), now pursuing a bachelor's degree in Information Systems.

WORK EXPERIENCE

Backend Developer (Freelance) | Self-employed Sep 2025 – Sep 2026
Built and deployed backend systems for two village governments, each with a two-person team (backend + frontend/mobile).

SIPANDAI Rembes, Pemerintah Desa Rembes Aug 2026 – Sep 2026
Attendance and performance-recap system for 13 village officials (Laravel REST API + Next.js PWA)

- Designed the PostgreSQL 16 schema and built the Laravel 12 REST API, with Sanctum token authentication and role-based access for admins, staff, and village leaders.
- Enforced attendance rules on the server: accuracy-aware geofence checks, scores based on server time, and a unique (user, date) constraint that blocks double check-ins under concurrent requests.
- Built leave approvals, daily work reports, and monthly PDF/Excel recaps sealed once signed, with an audit log of corrections.
- Deployed the API and static frontend on one domain behind Nginx on a VPS (2 vCPUs, 4 GB RAM), with a GitHub Actions CI/CD pipeline, database-backed queues, and scheduled jobs.

Face-recognition attendance, Pemerintah Desa Gedangan Sep 2025 – Feb 2026
Attendance system for the village office's 13 staff (Laravel REST API + Flutter app)

- Designed the MySQL schema and face enrollment/attendance endpoints, replacing paper recaps with instant queries.
- Implemented face verification in PHP using cosine similarity over MobileFaceNet embeddings, with weighted scoring across official and registration photos.
- Containerized the stack with a multi-stage Docker build (PHP-FPM, Nginx with SSL, MySQL), set up a GitHub Actions CI/CD pipeline, deployed it to the client's server, and maintained it in production through February 2026.

Backend Developer Intern | Dinas Komunikasi dan Informatika Kabupaten Semarang Aug 2025 – Dec 2025
TowerTrack: public map of the regency's telecommunication towers and fiber-optic routes (Laravel, Inertia.js, MySQL, Docker)

- Modeled tower and fiber-optic route data and migrated it from spreadsheets into a relational MySQL schema, making the records searchable and mappable.
- Built the query layer behind the map: filters by district, provider, point type, permit status, and road side, plus coverage-radius and distance calculations.
- Implemented public reporting endpoints so residents and providers can submit complaints and corrections.
- Delivered the app as a Laravel + Inertia.js monolith containerized with Docker.

PROJECTS

Bang Deliv | Final project, Politeknik Negeri Semarang (team of two) 2026
Ride-hailing, courier, and errand service designed to replace WhatsApp-based ordering (Laravel, MySQL, Gemini API)

- Built the Laravel REST API and MySQL database behind the customer app, driver app, and admin dashboard (orders, driver assignment, tracking, chat, payments), deployed on a Linux VPS.
- Integrated the Gemini API into the Laravel backend so the chatbot turns customers' everyday messages into JSON orders.

Justipin | Errand-service (jastip) mobile app | Course project, Politeknik Negeri Semarang (team) 2024

- Built Flutter UI modules with Provider state management: login, OTP verification, user dashboard, and transaction history.

EDUCATION

Universitas Dian Nuswantoro | Bachelor's degree in Information Systems (RPL track, mostly online) | 2026 – Present

Politeknik Negeri Semarang | Associate Degree (D3) in Informatics Engineering | Sep 2023 – Aug 2026 | GPA 3.86/4.00

CERTIFICATIONS

Certified Associate – Big Data Analyst | SOLUSI247 | Aug 2026 | Credential ID SCA511-2508-260811940

MikroTik Certified Network Associate (MTCNA) | MikroTik | Feb 2026 | Certificate No. 2602NA8027

CCNA: Switching, Routing, and Wireless Essentials | Cisco Networking Academy | Jan 2025

Database Programming with SQL | Oracle Academy | Dec 2024

Database Design | Oracle Academy | Oct 2024

SKILLS

Backend: PHP, Laravel, RESTful API design, Laravel Sanctum, RBAC, queues and scheduled jobs, Gemini API integration

Databases: PostgreSQL, MySQL, SQL, database design

DevOps & Tools: Docker, Nginx, Linux (VPS), GitHub Actions (CI/CD), Git

Frontend: Next.js, React, TypeScript, Tailwind CSS, Inertia.js

Languages: Indonesian (native), English (intermediate)