

Mochamad Farhan Ali

DevOps Engineer & Fullstack Developer

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PROFILE

Fullstack Developer passionate about building efficient, scalable systems and managing entire development lifecycles. Experienced in cloud infrastructure, CI/CD automation, and high-performance applications. Currently contributing at Kementerian PU while pursuing informatics studies.

Software House: Surupan Software House - surupan-dev.vercel.app/

WORK EXPERIENCE

Junior Software Engineer

Sekolah Tinggi Teknologi Pekerjaan Umum Jakarta • Aug 2024 - Present

- Designed and engineered SIPEKAD, an integrated academic and student information system built with Next.js and PostgreSQL, achieving comprehensive digitalization of campus services and automating previously manual bureaucratic processes.
- Also developed the official institution website and authored complete technical documentation and system schemas to ensure long-term scalability and maintainability of the application ecosystem.

Fullstack Developer Intern

Pusdatin, Kementerian Pekerjaan Umum • Jan 2026 - Apr 2026

- Developed an integrated personnel and functional position management dashboard to digitalize HR data monitoring across departments.
- Engineered Python and SQL automation scripts to accurately clean and import thousands of employee records, ensuring data integrity and real-time synchronization.

Back End Developer

Enigma Camp Bootcamp • Jan 2024 - May 2024

- Built a robust room reservation REST API using Golang with gorilla/mux, implementing secure JWT authentication and a structured PostgreSQL schema for efficient data management.
- Focused on clean code principles, strict input validation, and comprehensive unit testing to ensure long-term reliability and backend scalability.

EDUCATION

Informatics Engineering

STT Pekerjaan Umum • 2023 - Present

- Focusing on Software Engineering, Data Structures, and Algorithm Design.
- Active member of the university coding club.
- Relevant Coursework: Web Development, Database Systems, Artificial Intelligence.

TECHNICAL SKILLS

Core Stack: Gin, React, Next.js, Laravel, Tailwind, PostgreSQL, MySQL, MongoDB, Redis, Docker, AWS, GitHub Actions

Fullstack Development: Express.js, Laravel, Next.js, React, Tailwind

Engineered robust end-to-end applications handling 10k+ daily requests. Bridged high-performance backends (Go, Express, Laravel) with responsive interfaces, focusing on database optimization and tight security.

Cloud & Infrastructure: AWS, Docker, Kubernetes, Vercel

Experienced in deploying auto-scaling infrastructure ensuring 99.9% uptime. Strong expertise in Docker containerization and Kubernetes orchestration.

CI/CD & Automation: Jenkins, GitHub Actions

Reducing deployment time by 40% through automated testing and continuous delivery pipelines utilizing Jenkins and GitLab CI.

Database Architecture: PostgreSQL, MySQL, MongoDB, Redis

Ensuring sub-second queries by optimizing indexing and architectures in relational (PostgreSQL, MySQL) and NoSQL (MongoDB) data stores.

PROJECTS

Sistem Jabatan Fungsional

Functional Position System

Tech: Next.js, PostgreSQL, Supabase

Problem: Complex functional credit tracking causing severe assessment and promotion delays.

Solution: Developed an SSR Next.js application that seamlessly calculates performance credit points.

Impact: Boosted assessment efficiency and drastically reduced manual calculation errors.

github.com/mchdfrhn/pusdatin-jafung | jafung-pusdatin.vercel.app

Sistem Kepegawaian Pusdatin

Employee Management Dashboard

Tech: Next.js, PostgreSQL, Supabase, Tailwind

Problem: Manual processing of massive bureaucratic employee records and hierarchy changes.

Solution: Engineered an automated HR dashboard handling streamlined XLSX data ingestion with granular RBAC.

Impact: Centralized tracking for thousands of active civil servants, cutting admin work by hours.

github.com/mchdfrhn/pusdatin-karyawan | pegawai-pusdatin.vercel.app

Sistem Pengajuan Akademik

Administrative System & WA Notification

Tech: React, Express.js, Redis, Postgres

Problem: Inefficient manual administrative handling and lack of instant feedback for users.

Solution: Built a robust information system connected to a WhatsApp gateway (Baileys) via Redis.

Impact: Automated 10k+ notifications and deployed high-availability microservices.

github.com/mchdfrhn/sipekad-fe | app.sipekad.web.id

Website Kampus

Official Institutional Website with Headless CMS

Tech: Next.js, PostgreSQL, Payload.js, Tailwind

Problem: No modern campus website — content updates required manual code changes by developers.

Solution: Built with Next.js and Payload CMS as headless backend, enabling staff to manage content.

Impact: Production-ready site now serving as the official online presence of STT Pekerjaan Umum Jakarta.

github.com/mchdfrhn/website-kampus | sttpu.mochamadfarhanali.my.id/