

# Muhammad Fikri Hidayatulloh

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[github.com/fikrihidayatulloh16](https://github.com/fikrihidayatulloh16) | [Personal Portfolio](#)

Informatics Engineering graduate with a focus on Full-stack development and Infrastructure management. Experienced in building scalable applications using NestJS and Next.js, with hands-on expertise in managing self-hosted cloud environments via Proxmox and Docker.

## EDUCATION

### Politeknik Negeri Bandung

*Applied Bachelor of Computer Science (D4 Teknik Informatika)*

Bandung, Indonesia

Aug 2020 – Aug 2025

## EXPERIENCE

### Fullstack Engineer Intern

*PT Ramu Prima Persada (Construction & IT Consultancy)*

June 2024 – Oct 2024

Bandung, Indonesia

- Developed a web-based construction progress monitoring application using PHP and MySQL to streamline project tracking and reporting.
- Collaborated with construction consultants to translate business requirements into functional technical features.

## PROJECTS

### School Counselor Assessment SaaS | [Live Demo](#) | *NestJS, Next.js*

Jan 2025 – Present

- Developed a full-stack platform with bulk-import Excel functionality and WebSockets for real-time exam monitoring, deployed on a self-hosted Proxmox infrastructure via Cloudflare Tunnels.
- Optimized system responsiveness by implementing a hybrid caching strategy using Redis and TanStack Query, ensuring high performance for concurrent student assessments.

### Personal Cloud Infrastructure & Home Lab | *Proxmox VE, Docker, Cloudflare*

Nov 2025 – Dec 2025

- Architected a private cloud environment on 2-core hardware using Proxmox VE, optimizing resource allocation through LXC containers and secure Cloudflare Tunnels for remote access.
- Established a localized CI/CD pipeline for personal projects, facilitating live application deployment and zero-cost production hosting through self-hosted infrastructure management.

### Web Security & Performance Research | *Python, Flask, Grafana, Linux*

Jun 2025 – Jul 2025

- Researched security-performance trade-offs by implementing HTTPS, Rate Limiting, and RBAC on resource-constrained servers, visualizing real-time metrics through custom Grafana dashboards.
- Automated performance log collection using Python scripts, proving that structured security measures can optimize CPU efficiency while maintaining robust system integrity.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, SQL, HTML/CSS, Python, PHP

**Frameworks:** NestJS, Next.js, React, Node.js, Astro.JS, Spring, Vite, Flask

**Database:** SQLite, MySQL, PostgreSQL, MongoDB

**Developer Tools:** Docker, Git, Redis, Socket.io, TanStack Query, Prometheus, Grafana, Sanity.io

**Infrastructure:** Proxmox Virtual Environment, AWS (Candidate), Cloudflare Tunnels, Linux (Debian/Ubuntu), Vercel