

Muhammad Fikri Hidayatulloh

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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 <i>Applied Bachelor of Computer Science (D4 Teknik Informatika)</i>	Bandung, Indonesia Aug 2020 – Aug 2025
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EXPERIENCE

Fullstack Engineer Intern <i>PT Ramu Prima Persada (Construction & IT Consultancy)</i>	June 2024 – Oct 2024 Bandung, Indonesia
<ul style="list-style-type: none">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 <i>NestJS, Next.js</i>	Jan 2025 – Present
<ul style="list-style-type: none">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 <i>Proxmox VE, Docker, Cloudflare</i>	Nov 2025 – Dec 2025
<ul style="list-style-type: none">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 <i>Python, Flask, Grafana, Linux</i>	Jun 2025 – Jul 2025
<ul style="list-style-type: none">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