

M Fitrah Muttaqin

DevOps Engineer & Fullstack Developer

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SUMMARY

Experienced DevOps engineer and fullstack developer with 17+ years of experience across infrastructure management, systems administration, and software development. Proven track record of building and maintaining production-grade systems for government and enterprise clients. Successfully developed multiple applications for the Surabaya City Government's GRMS platform while concurrently managing 30+ VPS instances across bare-metal and cloud environments (GCP, DigitalOcean, Contabo). Skilled in containerizing applications with Docker Compose, implementing CI/CD pipelines with GitHub Actions, hardening server security, and operating monitoring stacks (Grafana, Zabbix, Uptime Kuma). Passionate about bridging development and operations to deliver reliable, scalable systems.

EXPERIENCE

DevOps & Infrastructure Engineer

2007 – Present

Freelance / Self-managed — Surabaya, Indonesia

- Manage and maintain 30+ VPS instances across 5+ bare-metal servers (Ubuntu Server, CentOS), DigitalOcean Droplets, Contabo VPS, and GCP Compute Engine
- Deploy and manage Proxmox VE hypervisor on 5+ bare-metal servers since 2017, provisioning and maintaining 15+ VMs for development, staging, and production workloads
- Containerize 7+ production applications using Docker Compose; author Dockerfiles with custom networks, named volumes, bind mounts, health checks, restart policies, and private registries
- Configure reverse proxies (Nginx, Caddy, Traefik) and HAProxy for secure, high-availability deployments serving 2,000+ concurrent users across 5 domains
- Administer PostgreSQL end-to-end: installation, version upgrades, performance tuning, backup/restore, VACUUM, indexing, and slow query analysis; also manage MySQL, MariaDB, and Redis
- Maintain 20TB file server infrastructure: Samba, NFS, SFTP, Windows Server, 3x WD MyCloud 8TB NAS devices
- Deploy and scale workloads on GCP (Compute Engine, Artifact/Container Registry, Google OAuth integration), DigitalOcean (Droplets, Floating IP, Snapshots), and Contabo via RunCloud
- Build and maintain CI/CD pipelines with GitHub Actions: automated build, test, and deploy workflows
- Harden server security: SSH key authentication, disable root login, Fail2ban, UFW firewall, SSL/TLS via Let's Encrypt, VPN, Cloudflare DNS & proxy
- Set up monitoring and alerting with Grafana, Zabbix, and Uptime Kuma across all production systems
- Manage Cloudflare R2 object storage with custom domains and DNS; integrate AWS S3 as third-party application storage backend
- Automate operations via shell/bash scripts, Makefiles, and cron-based backup pipelines (pg_dump, rsync)

Fullstack Engineer

2025 – Present

PT Brighty Global Sinergy — Indonesia

- Develop and maintain operational web applications using microservice architecture with Golang, Laravel, Next.js, Nuxt, and PostgreSQL
- Implement CQRS (Command Query Responsibility Segregation) pattern across services for scalable and maintainable architecture
- Build and maintain a Warehouse Management System (WMS) to support end-to-end inventory and operational workflows
- Integrate marketplace platforms (TikTok Shop, Shopee, Tokopedia) for unified product listing, order management, and inventory synchronization
- Integrate courier and logistics services (Lincah, Mengantar, J&T, JNE) for automated shipment creation, tracking, and status updates

Fullstack Developer

2023 – 2025

PT Cipta Integrasi Nusantara — Indonesia

- Develop and maintain web applications using Node.js, Vue.js, Golang, Laravel, and PostgreSQL
- Maintain and develop a hospital management system covering patient registration, medical records, billing, and clinical workflows
- Integrate with BPJS Kesehatan (Badan Penyelenggara Jaminan Sosial — Indonesia's mandatory national health insurance, covering 230M+ members) for automated claim submission, billing verification, and patient eligibility checks
- Implement CQRS (Command Query Responsibility Segregation) pattern to decouple read and write operations for improved scalability
- Optimize database queries and data access layer using Prisma ORM, improving query performance and code maintainability

Fullstack Developer

2013 – 2024

Surabaya City Government — Surabaya, Indonesia

Design and develop eBudgeting, SABK, and ePayment — three of many apps in GRMS (Government Resource Management System) for Surabaya City:

- Develop and maintain web applications using Java, JasperReport, React, React Native, Vue.js, Golang, Laravel, PostgreSQL, and related technologies
- Spend the majority of the role managing and maintaining on-premise server infrastructure — including application servers, database servers, and file servers — running 15+ VMs on Proxmox VE across 5+ bare-metal machines hosting all government production systems
- Collaborate with cross-functional teams including designers, product managers, and other developers to deliver high-quality products
- Implement responsive design and ensure cross-browser compatibility
- Participate in code reviews and provide constructive feedback to team members

Fullstack Web Developer

2010 – 2013

PT Semen Indonesia — Gresik, Indonesia

- Develop and maintain two web application projects: feature additions, refactoring, and bug fixes
- Stack: HTML, CSS, JavaScript, PHP 5, SQL, CodeIgniter, Sencha/ExtJS, MySQL 5, Apache HTTPD, PHPMyAdmin, PowerDesigner

PHP Developer

2008 – 2009

PT Nipsea Paint and Chemical Co. Ltd. (Nippon Paint) — Gresik, Indonesia

- Build a new web application from scratch: HTML, CSS, JavaScript, PHP 5, SQL, Sencha/ExtJS, MySQL 5, Apache HTTPD, PHPMyAdmin

Database Analyst

2007 – 2008

PT Traspac — Surabaya, Indonesia

- Develop and optimize SQL queries to improve database performance and efficiency
- Collaborate with cross-functional teams to identify data requirements and enhance reporting capabilities

EDUCATION

SKILLS

DevOps & Infrastructure: Proxmox VE (Advanced), Docker & Docker Compose (Advanced), Linux Admin Ubuntu/CentOS (Advanced), Shell/Bash Scripting (Advanced), Nginx / Caddy / Traefik (Intermediate), HAProxy (Basic), SSH / Firewall / UFW / Fail2ban (Intermediate), Systemd / Cron (Intermediate)

Cloud & Networking: GCP Compute Engine & Artifact Registry (Intermediate), DigitalOcean Droplets/Snapshots/Floating IP (Intermediate), Contabo & RunCloud (Intermediate), AWS S3 (Basic), Cloudflare DNS & R2 (Intermediate), SSL/TLS Let's Encrypt (Intermediate), VPN (Intermediate)

CI/CD & Automation: GitHub Actions (Intermediate), Shell Scripts & Makefiles (Advanced), cron-based backup automation: pg_dump, rsync (Advanced)

Monitoring & Security: Grafana, Zabbix, Uptime Kuma (Intermediate), Fail2ban, SSH key auth, Cloudflare proxy

Databases: PostgreSQL DBA — tuning, backup, vacuum, indexing, slow query (Advanced), MySQL / MariaDB (Advanced), Redis, JasperReport

File Servers: Samba, NFS, SFTP, Windows Server, WD MyCloud NAS

Backend: Golang (Advanced), Node.js (Advanced), Laravel (Expert), Java (Advanced), Python (Proficient), PHP

Frontend: Vue.js (Expert), React (Expert), React Native (Expert), HTML / Bootstrap / Tailwind / TypeScript (Expert)

Soft Skills: Communication, Teamwork (Advanced)