

Muhammad Fatih Rizki Herianto

Network Engineer, Cloud Enthusiast

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EXPERIENCE

Internet Cafe Operator

2018 – 2019

Green.net

Bekasi, West Java

- Assisted with basic LAN setup, cable management, and workstation connections to switches and routers.
- Supported basic PC and local network troubleshooting while monitoring client workstations during daily operations.

EDUCATION

Bina Nusantara University

Sep. 2024 – Aug. 2028

Bachelor of Science in Computer Science – Cloud Computing Track

Bandung, Indonesia

- Related Coursework: Cloud Computing, Computer Networks, Cloud Security, Software Development Operations, Database Systems, Data Structures and Algorithms

SELECTED PROJECTS

SafeBite | *React, TypeScript, Vite, FastAPI, Supabase* | [Repo]

Jan. 2026

- Led a team developing a full-stack food-safety application with React/TypeScript, Supabase services, and a separate FastAPI AI backend.
- Coordinated frontend/backend integration and contributed to OCR and AI inference components using DocTR and Hugging Face services.

Multi Site Network Automation | *NetBox, Ansible, Jinja2, FRR, Containerlab*

Apr. 2026

- Built a multi-site network automation workflow using NetBox for network data and Ansible/Jinja2 to generate router configurations.
- Added configuration-drift checks by comparing documented state with running FRRouting configuration and OSPF routing state.

Dual-WAN Failover & Path Selection | *Linux Networking, Python, iproute2, tc/netem*

Jul. 2026

- Built a two-path WAN lab to test routing behavior under latency, jitter, packet loss, and link failure.
- Developed WAN path-selection logic based on measured link quality and recovery thresholds to avoid unnecessary failover and path flapping.

Container Deployment Pipeline | *AWS EC2, Docker, Nginx, GitHub Actions, ECR*

Sep. 2026

- Designed a cloud deployment workflow for separate frontend and API services behind an Nginx reverse proxy.
- Built a CI/CD release flow using versioned container images, health checks, and smoke tests with recovery to the previous release when validation fails.

TECHNICAL SKILLS

Networking & Infrastructure: TCP/IP, IPv4, Routing & Switching, OSPF, BGP, EIGRP, VLAN, STP/RSTP, ACLs, NAT, DHCP, DNS, Linux Networking, FRRouting, NetBox, Ansible, GNS3, PNETLab, Cisco Packet Tracer, Policy Routing

Cloud & DevOps: AWS, GCP, Docker, Docker Compose, Kubernetes, GitHub Actions, CI/CD, Nginx

Monitoring & Observability: Zabbix, Prometheus, Grafana

Programming & Scripting: Python, JavaScript, TypeScript, PHP, Java, C/C++

Backend & API: FastAPI, REST APIs, OpenAPI/Swagger, Postman, Supabase

Frontend: React, Vite, Tailwind CSS, Flutter

Development & Tools: Git, VS Code, JetBrains IDEs, VMware Workstation, VirtualBox, Laragon

Databases: MySQL, PostgreSQL, Supabase