



# ANDY SETIYAWAN

DEVOPS / SRE ENGINEER

## Contact

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- **Portfolio:** <https://portfolio-andy-setiyawan.vercel.app/>

## Summary

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I am a DevOps / SRE Engineer with 8+ years of experience building and managing production-grade infrastructure across multi-cloud environments, including AWS, GCP, Huawei Cloud, DigitalOcean, Linode, and on-premise systems. My expertise focuses on designing scalable and reliable systems. I leverage automation, infrastructure as code, and strong observability practices to ensure security and performance. I have hands-on experience in CI/CD, monitoring, and incident response, often serving as an escalation point for critical production issues. Applied DevSecOps principles to enhance system security through hardening and attack mitigation. Additionally, I support AI workloads from an infrastructure perspective, including deploying LLM inference (vLLM), building API layers, and managing vector databases like Qdrant for high performance and reliability.

## Work Experience

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### Cloudops Engineer | 2019 - 2025

*ICube By Sirclo (PT Lingkar Niaga Solusindo)*

- Managed and optimized production-grade infrastructure across multi-cloud platforms (GCP, AWS, Huawei, Linode, DigitalOcean), ensuring high-availability, performance, and proactive issue detection.
- Designed and implemented infrastructure automation and CI/CD pipelines (Git, Jenkins, Buildkite, Helm, Terraform) within Kubernetes environments, improving deployment efficiency and system reliability.
- Collaborated across the software development lifecycle with engineering and cross-functional teams to deliver scalable and maintainable systems.
- Strengthened system security through infrastructure hardening and continuous security improvements, improving system resilience, reliability, and stability across high-availability production environments.
- Acted as a primary escalation point, resolving 10+ L2 incidents weekly and reducing critical resolution time through effective root cause analysis

### Network & Server Engineer | 2018 - 2019

*PT Media Belajar Indonesia*

- Designed and deployed on-premise server infrastructure for a Computer-Based Test (CBT) system, enabling scalable and reliable operations across multiple branches.
- Implemented an inter-regional network architecture connecting multiple cities (Yogyakarta, Surabaya, Lamongan, Bojonegoro, Tulungagung), improving system centralization and operational efficiency

### Network Security Analyst | 2018 - 2019

*PT Aino Indonesia*

- Designed and implemented network security architecture for large-scale e-ticketing platforms (Gembiraloka Zoo, Prambanan Temple, Ratu Boko Temple, Ramayana, MRT, TransJakarta, TransJogja), improving system security and supporting reliable digital transaction services.

## Network Security & Server Engineer | 2017 - 2018

PT Sydeco

- Managed and monitored network infrastructure (routers, Wi-Fi, switches, CCTV, and on-premise servers) to ensure system reliability and stable operations.
- Designed and implemented a custom first-layer firewall solution using a Single Board Computer, improving network security and system stability.
- Provided infrastructure support across hardware, software, and network systems to ensure service continuity and effective cross-team collaboration.
- Developed automation scripts for backup processes, reducing manual effort by 2 hours per week and achieving 99.9% data recovery reliability.

## Freelance Work Experience

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### Freelancer | 2017 - Present

- Designed and deployed a local server with intranet infrastructure for content creators, supporting AI image generation workflows using ComfyUI.
- Built and configured a local intranet-based AI environment for a community, enabling AI chat, code generation, and image generation using tools such as Llama.cpp and LibreChat.
- Developed and secured an API server with IPsec tunneling to Bank BJB for Hipajak, enabling reliable and secure tax payment transactions for the Samsat Mobile Jawa Barat (Sambara) application.
- Implemented CCTV systems across multiple branches (Yogyakarta, Surabaya, Bojonegoro, Lamongan, Tulungagung) to enhance operational monitoring and security.

## Education

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### University Bina Sarana Informatika | Graduation Year 2016

D3 in Information Management | IPK 3,25

### SMK 45 Wonosari Gunungkidul | Graduation Year 2009

Automotive Mechanical Engineering

## Personal Projects

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- **K6 AI Powered** - Full-stack performance testing platform combining k6 load testing, AI analysis (Gemini, OpenAI, local LLM), and a modern analytics dashboard into a production-ready system (GitHub: <https://github.com/andycungkrinx91/k6-AI-Powered>)
- **Smart RT** - Developed a community management platform (RT/RW) with a public-facing frontend and admin dashboard using Next.js and FastAPI (GitHub: <https://github.com/andycungkrinx91/Smart-RT>)
- **Terraform DigitalOcean Laravel Provisioning** - Automated infrastructure provisioning for Laravel applications using Terraform on DigitalOcean, improving deployment efficiency and scalability (GitHub: <https://github.com/andycungkrinx91/terraform-DigitalOcean-laravel>)
- **AI CV Optimizer** - Built an AI-powered web application that analyzes CVs against job descriptions to provide personalized improvement recommendations (GitHub: <https://github.com/andycungkrinx91/AI-CV-Optimizer>)
- **Nginx AI Security Suite** - Developed an AI-powered security tool using a RAG pipeline with Gemini to analyze Nginx logs and audit security headers, providing context-aware recommendations (GitHub: <https://github.com/andycungkrinx91/Nginx-AI-Security-Suite>)
- **ComfyUI Dockerized Environment** - Designed and deployed a containerized GenAI image generation environment using Docker, improving portability, reproducibility, and scalability of AI workloads (GitHub: <https://github.com/andycungkrinx91/comfyui-dockerize>)

## Skills

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### Cloud & Infrastructure:

*GCP, AWS, Huawei Cloud, Linode, DigitalOcean*

### Containerization & Orchestration:

*Docker, Docker Compose, Kubernetes, LXC/LXD*

### CI/CD & Infrastructure as Code:

*Terraform, Jenkins, Buildkite, Helm, Ansible, Packer*

### Monitoring & Observability

*Prometheus, Grafana, Loki, Datadog, New Relic, SonarQube*

### AI Infrastructure & Tools:

*vLLM, FAISS, Qdrant, LibreChat, N8N, Flowise, Langflow, OpenWebUI, ComfyUI, Ollama, Llama.cpp, Hugging Face*

### Database & Messaging

*PostgreSQL, MySQL, MongoDB, Elasticsearch, RabbitMQ, PGVector*

### Programming Language & Script

*Python, Shell Script, JavaScript, PHP*

### Frameworks

*FastAPI, Next.js, Laravel, CodeIgniter*

### CDN & Proxy

*Cloudflare, CloudFront, Nginx, HAProxy, Varnish, Traefik*

### Cloud Storage

*AWS S3, DigitalOcean Spaces, GCP Storage, Linode Object Storage, Huawei Cloud OBS*

### DevSecOps & Security:

*Cloudflare WAF, ModSecurity, Fail2Ban, pfSense, OpenVPN, WireGuard, OWASP ZAP, Skudonet*

## Certification

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- **Udemy DevOps MasterClass: Terraform Kubernetes Ansible Docker.**  
<https://www.udemy.com/certificate/UC-a8e03d87-2936-4b68-ab3e-2f62803b8aa1/>
- **Udemy Kubernetes with HELM: Kubernetes for Absolute Beginners.**  
<https://www.udemy.com/certificate/UC-5c6e43b5-4b11-4060-a68b-76a21715e200/>
- **Udemy Ultimate DevOps to MLOps Bootcamp - Build ML CI/CD Pipelines.**  
<https://www.udemy.com/certificate/UC-437d386a-1bd1-4772-ae67-df5284387604/>
- **Udemy AI Bible: From Beginner to Builder in 100 Projects.** <https://www.udemy.com/certificate/UC-e8193950-f3ae-4c1c-bff2-69fd3027346b/>
- **Udemy AI Agents Bootcamp: Cost-Free LLMs to Production Systems.**  
<https://www.udemy.com/certificate/UC-7173d7e6-4ffd-4130-9047-d0f22a814fec/>

## Language

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- Indonesian (Proficient)
- English (Basic)