

# Daud Herlangga Andrianata

DevOps Engineer

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## Professional Summary

Results-driven DevOps Engineer with 2+ years of experience in designing, implementing, and maintaining scalable infrastructure solutions. Expertise in Kubernetes, CI/CD pipelines, cloud platforms (AWS, GCP, Azure), and automation tools. Proven track record of optimizing deployment processes, reducing downtime, and enhancing system reliability. Passionate about infrastructure as code, monitoring, and DevSecOps practices.

## Core Skills

**Languages:** Golang, Python, YAML, Bash/Shell

**DevOps Tools:** Jenkins, Docker, Kubernetes, Ansible, Terraform, GitLab CI, FluxCD, Argo CD, Helm

**Cloud Platforms:** AWS (EC2, S3, RDS, EKS, IAM), GCP (GKE, Compute Engine), Azure (AKS, VMs)

**Monitoring & Logging:** Grafana, Prometheus, Loki, ELK Stack, Alertmanager

**Databases:** PostgreSQL, MySQL, MongoDB

**Service Mesh & Ingress:** Istio, Traefik, NGINX Ingress, Cert-Manager

**Areas of Interest:** DevOps, MLOps, DevSecOps, FinOps, Cloud Computing, Containerization, Automation, Network Security

## Professional Experience

**DevOps Engineer**, Bank Rakyat Indonesia – Jakarta, Indonesia

Jan 2026 – present

- Full-time position in financial services sector

**DevOps Engineer**, Falah Inovasi Teknologi – Jakarta, Indonesia

Sept 2024 – Dec 2025

- Managed 5+ bare-metal Kubernetes clusters serving internal and client applications, ensuring 99.9% uptime through proactive maintenance, storage optimization, and network configuration
- Designed and maintained CI/CD pipelines using GitLab CI for Unity-based, microservices, and frontend applications, reducing deployment time by 40% and ensuring consistent releases across environments
- Implemented comprehensive monitoring stack (Prometheus, Grafana, Loki, Alertmanager) enabling proactive detection of issues and reducing incident response time by 60%
- Deployed and optimized AI/ML inference services on Kubernetes, achieving 30% improvement in model loading times through resource tuning and autoscaling
- Applied GitOps principles with FluxCD to manage 50+ Helm releases, improving deployment traceability and reducing configuration drift by 80%
- Automated infrastructure provisioning with Ansible, standardizing server setup across 20+ nodes and reducing manual configuration errors
- Established multi-tenant environments with Traefik ingress, TLS encryption, and resource quotas, enhancing security and stability for multi-project deployments
- Led incident response for production issues, resolving critical problems within SLA windows and documenting post-mortems for continuous improvement
- Collaborated with development teams to optimize container images, reducing size by 50% and improving deployment efficiency

**DevOps Engineer (Internship)**, Evermos – Bandung, Indonesia

Mar 2024 – Aug 2024

- Supported DevOps operations for high-traffic e-commerce platform, improving deployment reliability for 15+ microservices
- Built and maintained Jenkins CI/CD pipelines (Freestyle & Declarative), automating build-test-deploy cycles for Golang, Java, and mobile applications
- Containerized legacy applications with Docker and orchestrated deployments on EKS, reducing environment inconsistencies by 70%
- Managed AWS infrastructure (EC2, S3, RDS, IAM), provisioning resources for dev/staging environments and optimizing costs by 25%
- Optimized Jenkins pipelines through parallelization and caching, cutting average deployment time from 45 to 25 minutes
- Developed Terraform modules for standardized AWS resource provisioning, reducing setup time by 60% and ensuring compliance
- Troubleshoot build failures and deployment issues in collaboration with backend and QA teams, maintaining 95% deployment success rate
- Documented infrastructure processes and CI/CD workflows, enabling knowledge transfer and team scalability

**DevOps Bootcamp Participant**, DBS Foundation Coding Camp – Remote

June 2023 – Dec 2023

Intensive DevOps Training Program

- Implemented end-to-end CI/CD pipelines using Jenkins, Docker, and Kubernetes, automating software delivery processes
- Deployed and managed containerized applications on AWS infrastructure, gaining hands-on experience with cloud-native technologies
- Configured monitoring and logging solutions with Prometheus, Grafana, and Loki for real-time system observability
- Collaborated on team projects applying Infrastructure as Code principles and best practices for scalable deployments
- Developed proficiency in container orchestration, network security, and automated testing methodologies

**DevOps Bootcamp Participant**, IDCamp – Remote

Nov 2022 – Jan 2023

DevOps Engineering Bootcamp

- Built CI/CD pipelines integrating Jenkins, Docker, and Kubernetes for automated application deployment
- Provisioned and managed GCP infrastructure using Terraform, implementing Infrastructure as Code practices
- Configured monitoring dashboards with Grafana and Prometheus for system performance tracking and alerting
- Developed automation scripts for infrastructure management and security hardening
- Gained practical experience in container orchestration, cloud deployment, and DevOps toolchains

**Linux & DevOps Bootcamp Participant**, BTech Academy – Remote

Sept 2022 – Nov 2022

Focused Training in Linux Administration, Ansible, and Docker

- Completed intensive training in Linux system administration, mastering server configuration and security best practices
- Implemented Ansible playbooks for automated server provisioning and configuration management across multiple environments
- Containerized applications using Docker, managing deployment pipelines and troubleshooting containerized workloads
- Developed shell scripts for system automation and monitoring, improving operational efficiency
- Applied DevOps principles to collaborative projects, focusing on infrastructure automation and reliability

Backend Development with Golang - Independent Campus Program

- Developed RESTful APIs and backend services using Golang, implementing concurrent programming with Goroutines and Channels
- Integrated applications with PostgreSQL and NoSQL databases, ensuring data consistency and performance optimization
- Containerized Golang applications with Docker and deployed to Kubernetes clusters on AWS infrastructure
- Implemented authentication, authorization, and security best practices for production-ready applications
- Applied testing methodologies (unit, integration) and performance profiling for application optimization
- Gained experience in cloud deployment, scalability patterns, and modern backend development practices

## **Projects**

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### **Azure Kubeflow Deployment**

Jan 2024 – present

A comprehensive Terraform solution for deploying Kubeflow on Azure using a single Ubuntu VM, automating the setup of MicroK8s, Juju, and Kubeflow to create a complete machine learning platform ready for ML/AI workloads

- Achieved complete ML platform deployment in under 30 minutes with idempotent deployment process
- Implemented Terraform for Azure infrastructure automation with robust setup script and progress tracking
- Configured MicroK8s with Juju for Kubeflow orchestration and automated data disk mounting for persistence
- Technologies
  - Terraform, Azure, Kubeflow, MicroK8s, Juju, Kubernetes, Shell Scripting, ML/AI

### **Azure K3s Terraform Deployment**

Jan 2024 – present

A comprehensive infrastructure as code solution for deploying a lightweight Kubernetes (K3s) cluster on Azure using Terraform, featuring automated networking, security configurations, and support for Istio service mesh integration

- Fully automated infrastructure deployment with secure cluster configuration and proper NSG rules
- Implemented modular Terraform configuration with GitOps integration using Flux CD
- Configured advanced traffic management with Istio and comprehensive security with mTLS
- Technologies
  - Terraform, Azure, K3s, Istio, Flux CD, Traefik, Linux, GitOps

### **SurfSense CI/CD**

Jan 2024

A comprehensive CI/CD pipeline for automating deployments of SurfSense using GitHub Actions, Cloudflare Tunnel, and systemd services

- Reduced deployment time with zero manual intervention and enhanced security through Cloudflare Tunnel
- Implemented GitHub Actions workflow automation with systemd for service management
- Technologies
  - GitHub Actions, Cloudflare Tunnel, SSH, systemd, Ubuntu

### **Fider CI/CD Pipeline**

Jan 2024

A robust CI/CD pipeline for Fider implementing automated build, test, and deployment workflows using Docker containers and GitHub Actions

- Reduced deployment errors and accelerated release cycles through automation
- Multi-stage GitHub Actions workflow with Docker containerization for consistency
- Technologies
  - GitHub Actions, Docker, Go, Node.js, PostgreSQL, SSH

### **Kubernetes Cluster GCP Setup**

Jan 2023

Comprehensive implementation of a Kubernetes cluster on Google Cloud Platform with NGINX Ingress Controller, Cert-Manager, and Argo CD using Helm

- Achieved fully automated certificate management with Let's Encrypt integration
- Established GitOps workflow with Argo CD for declarative configuration as code
- Technologies
  - Kubernetes, Argo CD, NGINX Ingress, Cert-Manager, Helm, Let's Encrypt, GCP

### **Terraform AWS EC2 Deployment**

Jan 2023

Infrastructure as Code implementation using Terraform to automate EC2 instance deployment on AWS with security configurations and SSH access setup

- Reduced deployment time from hours to minutes with consistent and repeatable infrastructure
- Implemented Terraform modules with variable files for environment separation
- Technologies
  - Terraform, AWS, EC2, IAM, SSH, Security Groups

### **FluxCD GitOps Implementation**

Jan 2023

Comprehensive GitOps implementation using FluxCD to manage Kubernetes cluster configurations and deployments

- Established fully automated deployment pipeline with version-controlled infrastructure
- Structured repository with base, clusters, and infrastructure directories using Kustomization
- Technologies
  - FluxCD, Kubernetes, GitOps, NGINX Ingress, Cert-Manager, Kustomize

### **Helm Chart for Backend Deployment**

Jan 2023

Custom Helm chart for standardized backend application deployments in Kubernetes with templated configurations

- Reduced deployment complexity with consistent application configurations
- Templated Kubernetes manifests with configurable values.yaml for customization
- Technologies
  - Helm, Kubernetes, YAML, Ingress, Deployment, Service

## **Certifications**

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- DBS Foundation Coding Camp - DevOps Engineering (2023)
- IDCamp - DevOps Engineering Bootcamp (2023)
- BTech Academy - Linux & DevOps Bootcamp (2022)
- Alterra Academy - Backend Development with Golang (2022)

## **Education**

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**University of Trunojoyo**, Bachelor of Engineering in Mechatronic Engineering – Madura, Indonesia      Sept 2020 – July 2024

- GPA: 3.47/4.00
- Relevant Coursework: Cloud Computing, Software Engineering, Operating Systems