

# Daud Herlangga Andrianata

DevOps Engineer

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## Professional Summary

DevOps Engineer with hands-on experience operating Kubernetes-based platforms, CI/CD pipelines, and cloud infrastructure in production environments across fintech and SaaS companies. Specialized in GitOps, observability, and cloud security automation. Proven track record of optimizing deployment processes, reducing downtime, and enhancing system reliability through infrastructure as code and DevSecOps practices.

## Professional Experience

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

Jan 2026 – present

Technologies: Kubernetes, Docker, Bamboo, ELK

- Leading migration initiative from VM-based infrastructure to containerized Kubernetes platform for banking applications
- Designing and implementing end-to-end CI/CD pipelines using Bamboo for automated build, test, and deployment workflows
- Architecting infrastructure and DevOps automation strategies for financial services workloads

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

Sept 2024 – Dec 2025

Technologies: Kubernetes, Docker, Helm, GitLab CI, FluxCD, Prometheus, Grafana, Loki, Tempo, Alertmanager, OpenTelemetry, RabbitMQ, Kafka, Kong API Gateway, Trivy, Falco, HashiCorp Vault, HSM, Harbor, Chaos Mesh, Tailscale, Cloudflare, Ansible, Traefik, Python, Bash

- Operated 5+ bare-metal Kubernetes clusters hosting internal and customer-facing workloads with 99.9% availability
- Built GitLab CI/CD pipelines for Unity-based, microservices, and frontend applications, reducing deployment time by 40%
- Applied GitOps principles with FluxCD to manage 50+ Helm releases, improving deployment traceability and reducing configuration drift
- Implemented enterprise security infrastructure with HashiCorp Vault (HSM integration), Harbor registry, Trivy/Falco scanning, and Kong API Gateway
- Automated infrastructure provisioning with Ansible across 20+ nodes and optimized AI/ML inference services, achieving 30% improvement in model loading times

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

Mar 2024 – Aug 2024

Technologies: Jenkins, Docker, Kubernetes (EKS), Kong API Gateway, Karpenter, HashiCorp Vault, AWS (EC2, S3, RDS, IAM, KMS), Terraform, Golang, Java

- Built and maintained Jenkins CI/CD pipelines (Freestyle & Declarative) for Golang, Java, and mobile applications, optimizing through parallelization and caching to cut deployment time from 45 to 25 minutes
- Containerized legacy applications with Docker and orchestrated deployments on EKS, reducing environment inconsistencies by 70% while maintaining 95% deployment success rate for 15+ microservices
- Deployed Kong API Gateway and implemented Karpenter for just-in-time node provisioning on EKS, reducing cluster costs by 35% through efficient compute resource scaling
- Implemented HashiCorp Vault on EKS integrated with AWS KMS for secure secrets management with dynamic credentials and automated rotation policies for databases and cloud services
- Developed Terraform modules for standardized AWS infrastructure (EC2, S3, RDS, IAM, KMS) provisioning, reducing setup time by 60% and optimizing costs by 25%

## **Professional Training**

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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)

## **Projects**

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### Azure Kubeflow Deployment Jan 2024

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
- Technologies
  - Terraform, Azure, Kubeflow, MicroK8s, Juju, Kubernetes, Shell Scripting, ML/AI

### Azure K3s Terraform Deployment Jan 2024

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
- Technologies
  - Terraform, Azure, K3s, Istio, Flux CD, Traefik, Linux, GitOps

### 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

### 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

## **Core Skills**

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- Cloud Infrastructure Design
- Kubernetes-based Workload Orchestration
- Infrastructure Automation (IaC)
- CI/CD Pipeline Engineering
- Observability & Incident Analysis
- Cloud Security & IAM
- Distributed Systems Operations
- High Availability & Scalability
- Site Reliability Engineering (SRE)

## **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