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 & Scripting: Golang, Python, Bash/Shell, YAML

Container & Orchestration: Docker, Kubernetes, Helm, Karpenter, FluxCD, Argo CD

CI/CD & Automation: Jenkins, GitLab CI, Terraform, Ansible, GitHub Actions

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

Monitoring & Observability: Grafana, Prometheus, Loki, Tempo, ELK Stack, Alertmanager, OpenTelemetry

Security & Networking: Trivy, Falco, Harbor, Tailscale, HashiCorp Vault, HSM, AWS KMS, Istio, Traefik, NGINX Ingress, Cert-Manager

Databases & Middleware: PostgreSQL, MySQL, MongoDB, RabbitMQ, Kafka, Kong, Chaos Mesh

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, Tempo, Alertmanager) with Open-Telemetry for distributed tracing, enabling proactive detection of issues and reducing incident response time by 60%
- Deployed and managed message broker infrastructure using RabbitMQ and Kafka for event-driven microservices architecture, ensuring reliable asynchronous communication
- Implemented Kong API Gateway for centralized API management, rate limiting, and authentication, improving API security and performance monitoring
- Integrated container security scanning with Trivy in CI/CD pipelines and deployed Falco for runtime security monitoring, identifying and remediating vulnerabilities before production deployment
- Implemented HashiCorp Vault with HSM integration for centralized secrets management and encryption key storage, ensuring secure credential rotation and compliance with security standards
- Implemented Harbor as private container registry with vulnerability scanning and image signing, improving supply chain security and compliance
- Conducted chaos engineering experiments with Chaos Mesh to validate system resilience, identifying weaknesses and improving fault tolerance across microservices
- Established secure networking with Tailscale VPN and Cloudflare for zero-trust architecture, improving remote access security and DDoS protection
- 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%
- Deployed Kong API Gateway on EKS for microservices API management, implementing rate limiting and authentication policies to improve API reliability
- Implemented Karpenter for just-in-time node provisioning on EKS, reducing cluster costs by 35% through efficient compute resource scaling
- Deployed HashiCorp Vault on EKS integrated with AWS KMS for secure secrets management, implementing dynamic credentials and automated rotation policies for databases and cloud services
- Managed AWS infrastructure (EC2, S3, RDS, IAM, KMS), 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
- Troubleshot 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 Developer Bootcamp Participant, Alterra Academy – Remote   Feb 2022 – July 2022

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

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

- 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

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