

DevOps Engineer, Certified Kubernetes Administrator | 10 years of experience

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Professional Summary

Highly experienced DevOps and Systems Engineer with over 10 years of experience in IT operations, including 3+ years specializing in DevOps and cloud infrastructure. Proven track record of designing, automating, and operating highly available, cloud-native platforms, driving reliability, scalability, and delivery efficiency through Kubernetes, Infrastructure as Code, and modern CI/CD practices.

Certifications:

CKA: Certified Kubernetes Administrator – CNCF/LF (Sep 2025)- Credential ID: LF-gp8t1corh5 - [Verify](#)

Tools and technologies:

Cloud platform: AWS

Container Orchestration: Kubernetes

CICD: Jenkins, ArgoCD

IaC: Terraform

Configuration Management: Ansible

Packaging & Templating: Helm

Networking: Nginx, Apache, GatewayAPI

Scripting & programming: Python, Bash

Monitoring & Observability: Prometheus, Grafana

Virtualization: VMware

Developer Platform: Backstage

OS: Linux, Windows Server

Collaboration: Asana, Jira

Education

2015: Master II – Computer Science – École Supérieure Polytechnique d'Antananarivo

2015: DEA – Applied Physics – University of Antananarivo

Languages

French: Excellent | English: Very Good

Professional Experience

DevOps Lead | UGD (GovTech) *May 2023 – June 2026 | Antananarivo, Madagascar*

- Implemented and maintained a highly available on-premise Kubernetes cluster, including running ETCD backups automatically with Restic, managing networking via Gateway API, handling certificate management, and leveraging custom operators such as Longhorn for distributed storage and PostgreSQL Crunchy for managed database services.
- Engineered and deployed a GitOps framework using ArgoCD, leveraging App-of-Apps architecture, ApplicationSets, and Helm charts to streamline continuous delivery and application lifecycle management.
- Designed, implemented, and maintained CI/CD pipelines using Jenkins, incorporating shared libraries to streamline functionality, integrating automated security scanning tools, securely managing sensitive information, using organizational folders to auto-generate jobs and multi-branch pipelines to support multi-environment project deployments.
- Set up an Internal Developer Platform (IDP) using Backstage to provide a golden path for deploying applications to a Kubernetes cluster. This workflow scaffolds a service using custom Helm values files, pushes it to GitLab, leverages auto-generated Jenkins jobs for CI, and uses ArgoCD for automatic synchronisation during deployment.
- Automated server tasks using Ansible, covering user permission management, software installation and updates, and dynamic inventory auto-refreshes (on AWS and VMware), significantly reducing manual intervention requirements.

- Led a cross-domain team comprising DevOps, DBAs, and software engineers, promoting effective communication and collaborative trust.

DevOps Engineer | Ezway (Technology Consulting, 2022 – 2023 | Antananarivo, Madagascar)

- Implemented and administered Terraform modules to provision and manage AWS infrastructure for application hosting.
- Enhanced and maintained CI/CD pipelines to support multi-stack applications, including JavaScript and PHP frameworks.
- Authored Bash scripts for operational automation tasks, including scheduled backup processes.
- Engineered Python backend services leveraging FastAPI, SQLAlchemy, Redis, and PostgreSQL.
- Orchestrated containerized application deployments and lifecycle management using Docker and Docker-Compose.
- Configured and maintained reverse proxies and web servers, including Apache and Nginx, ensuring optimal availability and performance.
- Collaborated with distributed remote teams, using tools like Jira for task tracking and Zoom for meetings.

Network Administrator | BMOI (Banking) 2018 – 2022 | Antananarivo, Madagascar

- Administered and optimized core banking network infrastructure, including configuration and management of Cisco routers and implementation of firewall policies.
- Oversaw enterprise backup and disaster recovery operations utilizing Veeam, conducting scheduled data restoration tests to validate backup integrity and recovery readiness.
- Monitored and maintained the entire ATM network through comprehensive dashboards and proactive alerting tools, ensuring high availability and rapid incident response.
- Generated detailed monthly reports on ATM network performance, availability metrics, incident tracking, and post-incident root cause analyses to support operational improvements.

System Engineer | Orange (Telecommunications) 2015 – 2018 | Antananarivo, Madagascar

- Managed 200+ VMware virtual machines running on Linux and Windows Server operating systems.
- Managed enterprise Active Directory, implemented and maintained Group Policy Objects (GPO), and handled Exchange server operations.
- Administered Linux systems, troubleshoot issues, and managed disk storage with LVM.
- Participated in the incident response team rotation during weekends and night shifts.