

Samir Koirala

DevOps Engineer

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Professional Summary

DevOps Engineer with experience building CI/CD pipelines, managing containerized applications, provisioning infrastructure with Terraform, and operating production environments. Currently leading DevOps practices across product teams, with hands-on experience in AWS, Docker, Kubernetes, Terraform, Terragrunt, GitHub Actions, n8n, monitoring, and deployment automation.

Experienced in production deployments, infrastructure migration, Infrastructure as Code, CI/CD automation, database backup automation, and troubleshooting distributed application environments.

Professional Experience

Lead DevOps Engineer

Sep 2025 to Present

TechYatra Labs Pvt. Ltd.

Kathmandu, Nepal — Hybrid, Full-time

- Lead the DevOps function across product teams, owning deployment standards, CI/CD practices, infrastructure decisions, and production release processes.
- Mentor engineers on CI/CD, Docker, Infrastructure as Code, deployment practices, and production infrastructure.
- Manage AWS and DigitalOcean environments with a focus on reliability, monitoring, automation, and infrastructure right sizing.
- Establish deployment and infrastructure standards across development, staging, and production environments.

DevOps Engineer

Aug 2025 to Aug 2026

NAXA Pvt. Ltd.

Kathmandu, Nepal — Full-time

- Built and maintained GitHub Actions CI/CD pipelines for automated Docker image builds, testing, and deployments to AWS ECS.
- Managed multi-environment infrastructure using Terraform and Terragrunt.
- Led migration of production workloads between cloud environments and modernized legacy deployments toward AWS based infrastructure.
- Built and maintained containerized application deployments using Docker and AWS services.
- Automated deployment, infrastructure provisioning, monitoring, and operational tasks.
- Implemented monitoring and observability using Prometheus, Grafana, and CloudWatch.

DevOps Engineer

Sep 2024 to Sep 2025

TechYatra Labs Pvt. Ltd.

Kathmandu, Nepal — Hybrid, Full-time

- Designed and maintained GitHub Actions CI/CD pipelines for Django and Next.js applications.
- Provisioned infrastructure using Terraform and deployed containerized applications using Docker and Nginx.
- Introduced Infrastructure as Code for development, staging, and production environments.
- Automated application deployment and release workflows.

DevOps Engineer Intern and Trainee

May 2024 to Sep 2024

Webpoint Solutions LLC

Kathmandu, Nepal — Hybrid

- Set up GitHub Actions CI/CD pipelines for automated builds and deployments.
- Configured AWS resources including EC2, S3, and IAM.
- Documented deployment procedures and supported infrastructure monitoring and troubleshooting.

Open Source and Projects

HOTOSM Kubernetes Infrastructure

Kubernetes, EKS, Terraform

- Contributed to the Humanitarian OpenStreetMap Team's Kubernetes infrastructure project.
- Worked with EKS and Infrastructure as Code for open source humanitarian mapping infrastructure.

n8n Database Backup Automation

n8n, PostgreSQL, MongoDB, S3

- Built n8n workflows to automate scheduled PostgreSQL and MongoDB database backups.
- Automated backup processing and storage to reduce recurring manual database maintenance.
- Added scheduled workflow execution and operational notifications for backup tasks.

Custom GitHub Workflows

GitHub Actions

- Developed reusable GitHub Actions workflows for Docker builds, application deployments, and automated releases.

DevOps Doctor

Go

- Built a CLI tool that diagnoses Docker, Docker Compose, and system health issues and provides actionable

troubleshooting guidance.

Speedy-CLI

Go

- Developed a terminal toolkit for internet speed testing, port checks, environment validation, and live NEPSE stock data.

Technical Skills

DevOps and CI/CD: Docker, Docker Compose, GitHub Actions, Jenkins, Bitbucket Pipelines, Nginx, CI/CD Automation

Infrastructure as Code: Terraform, Terragrunt, Ansible

Cloud: AWS, Azure, DigitalOcean, Proxmox, Cloudflare

AWS Services: ECS, EC2, S3, ECR, IAM, VPC, Lambda, CloudWatch

Containers and Orchestration: Docker, Docker Compose, Kubernetes, Amazon ECS, EKS

Automation: n8n, Python, Bash, Webhooks, REST APIs

Monitoring: Prometheus, Grafana, CloudWatch, ELK

Security and Networking: IAM, SSL/TLS, Nginx, Cloudflare, DNS

Version Control: Git, GitHub

Education

B.Sc. in Computer Science and Information Technology

Tribhuvan University, Amrit Campus, Lainchaur, Nepal

Leadership and Achievements

General Secretary, Open Source and Awareness Club (OSAC)

Mar 2020 to Mar 2023

- Organized a national level mapping competition in collaboration with the Humanitarian OpenStreetMap Team.

Nationwide Hackathon Winner

2022

CSIT Association of Nepal

Certifications

- DevOps Foundation
- Docker Foundations Professional Certificate
- Certified Kubernetes Administrator (CKA), In Progress