

Saurav Karki

DevOps Engineer

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DevOps Engineer with more than 1.5 years of hands-on experience in cloud-native and on premises infrastructure environments. Worked in High Availability Kubernetes clusters, networking (Ingress controllers, Envoy, MetalLB, Kubernetes Gateway API, Cloudflare, VPC, Subnets), and secure server hardening. Also Familiar with automation, CI/CD, and observability to deliver minimal-downtime, scalable, and secure systems.

TECHNICAL SKILLS

Cloud and Virtualization Technologies	AWS (EC2, EKS, S3, RDS, VPC, IAM, ECS, Aws Security Hub), Azure (Azure DevOps service, AKS, Virtual Machines, GCP (Compute Engine), Proxmox, VMware
Container & Orchestration	Docker, Docker Stack, Kubernetes (EKS, RKE2, k3s, AKS, ECS)
IAC & Automation	Terraform, Ansible, Bash, Python
Networking & Security	Ingress, Envoy Gateway, MetalLB, Cloudflare, Contour, IPsec (Libreswan)
CI/CD and GitOps	GitHub Actions, Jenkins, Gitlab CI/CD, Argo CD, FluxCD
Observability	Prometheus, Grafana, ELK, Loki, New Relic
Databases and Messaging	PostgreSQL, ScyllaDB, Mongo, Redis, Kafka, NATS
Devsecops	Trivy, SonarQube, Checkov, Falco, OWASP
Server Administration	Linux hardening, firewall (iptables, ufw, security groups), system patching, DNS/DHCP.
Web Servers & Proxies	Nginx, Traefik, HA proxy

PROFESSIONAL SUMMARY

Vairav Technology Security Pvt.Ltd, Kathmandu

DevSecOps Associate — Apr 2026 – Present

- Rebuilt the UAT environment from a failed server state by provisioning a fresh Debian-based system, setting up a k0s single-node Kubernetes cluster with Cilium networking, and migrating critical SOC microservices back into operation.
- Deployed and maintained a **SOC platform** featuring **Correlation Engine**, **Incident Response (IR)**, **UEBA**, **SOAR**, **CTIPS** and **Threat Intelligence** along with

supporting technology stacks including **Kafka, Centrifugo, Redis, PostgreSQL, Keycloak, OpenSearch, and OpenSearch Dashboards** for reliable SOC operations.

- Troubleshooted and improved **Logstash-based log ingestion pipelines**, ensuring secure and reliable collection, processing, and delivery of logs into the SOC platform.
- Implemented and optimized **CI/CD workflows** using self-hosted GitLab runners, integrated security scanning with **SonarQube and Trivy**.
- Managed docker and kubernetes based environments observability with **Prometheus, Grafana, cAdvisor, Node Exporter** along with configuring **GitLab and Proxmox exporters** to collect CI/CD pipeline and virtualization infrastructure metrics.
- Configured and tested **Microsoft SQL Server audit logging** for database activity monitoring, capturing authentication events and data modification operations (**INSERT, UPDATE, DELETE**) and integrating logs for security analysis and operational visibility.

Hamro Patro Inc, Kathmandu

DevOps Engineer Trainee — JUL 2025 – APR 2026

DevOps Engineer Intern — APR 2025 – JUL 2025

- Managed and secured **Linux-based production servers**, including **system hardening, patching, firewall configuration, monitoring, and OS/network troubleshooting**.
- Designed and operated highly available **Kubernetes (RKE2, K3s) clusters** supporting **30+ microservices** with **rolling updates, minimal-downtime deployments, and failover**.
- Implemented **ingress, routing, and load balancing** using **Envoy Gateway, Nginx, MetalLB, and Cloudflare** for secure and scalable service access.
- Explored and set up **event-driven microservices** architecture using **Kafka and NATS**, including **multi-DC NATS SuperClusters** for **fault tolerance and disaster recovery**.
- Managed distributed data systems (**ScyllaDB, PostgreSQL, Redis, Elasticsearch**), performing **replication, failover testing, and performance tuning**.
- Implemented **GitOps** workflows with **FluxCD** and built **CI/CD pipelines** for Java (**Micronaut, Spring Boot**) applications, automating build, test, containerization, and Kubernetes deployments.
- Deployed **observability and monitoring** stacks using **Prometheus, Grafana, ELK, Loki, and Uptime Kuma**; conducted load testing and capacity planning.
- Provisioned and managed cloud and infrastructure platforms including **AWS (EC2, S3), Proxmox, VMware, IPsec VPNs, and S3-compatible object storage**.
- Implemented **site-to-site IPsec VPNs** for secure, encrypted network connectivity between distributed data centers and remote clients.

Ultrabyte International Pvt.Ltd, Kathmandu

Office Assistant/QA — APR 03, 2023 - AUG 16, 2024

- Performed **functional and regression testing** for web applications (CRM, MIS), identifying defects and improving system reliability.
- Collaborated with **development and operations teams** to support resolving technical issues.
- Maintained **technical documentation** and assisted in **process improvements** for operational efficiency.

EDUCATION

Amrit Campus — *Bachelors In Information Technology (BIT)*

Tribhuvan University | GPA: 3.57

JUN 2021 - JUL 2025

CERTIFICATION

DevOps Beginners to Advanced with Projects – Udemy (Imran Teli), 2024

ARTICLES

- [medium] [Deploying Serverless Applications with AWS Lambda and API Gateway](#)
- [hashnode] [Building end-to-end CI/CD Pipeline](#)
- [hashnode] [DevOpsifying and deploying 3 tier application into EKS](#)
- [hashnode] [Java Micronaut on K3s: Deployment, Domain & Observability](#)