

Samir Khanal

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Mulpani, Kathmandu, Nepal

Profile Summary

DevOps Engineer with 2+ years of experience in designing, deploying, and managing cloud-native infrastructure using AWS and Terraform. Proven track record of automating CI/CD workflows, improving system reliability, and reducing cloud costs. Passionate about scalable DevOps culture and production-grade automation.

Technical Skills

- **Cloud Platforms:** AWS (EC2, Lightsail, VPC, S3, IAM, ECS, RDS, CodeBuild, CodePipeline, CloudFront), GCP (basic)
- **IaC:** Terraform
- **DevOps Tools:** Linux, Docker, Git, GitHub Actions, CodePipeline, Nginx, CI/CD
- **Monitoring:** AWS CloudWatch, Prometheus, Grafana, New Relic
- **Automation:** Bash scripting, Linux task automation
- **Security:** IAM, Firewall, VPN, DNS, Load Balancing, SSH, secrets management, IAM policies
- **Server Management:** Apache/Nginx, cPanel, DNS
- **Cost Optimization:** EC2/S3 lifecycle, resource rightsizing
- **System Administration:** Linux server management, user accounts, networking basics, Bash scripting, backups, updates
- **Databases:** MySQL, PostgreSQL, MongoDB

Professional Experience

DevOps Engineer

Aug 2025 – Present — Cloudlaya, Lalitpur, Nepal

- Supported the development, deployment, and QA processes of CostQ.ai, a cloud FinOps AI-powered cost optimization platform.
- Engineered CI/CD pipelines using GitHub Actions, reducing release time by 40%.
- Deployed and maintained Dockerized apps on AWS ECS across multiple environments.
- Built modular Terraform templates for consistent provisioning of EC2, S3, and IAM.
- Monitored infrastructure via CloudWatch dashboards and alarms; integrated New Relic.
- Spearheaded infrastructure redesign for staging, improving deployment stability by 30%.
- Acted as point of contact for DevOps escalations and mentored junior developers.
- Conducted periodic cost audits; reduced AWS spend by 20% through rightsizing and S3 policies.
- Administered hosting environments using cPanel, Apache/Nginx, and shell scripting.

DevOps Intern

Apr 2025 – Aug 2025 — Cloudlaya, Lalitpur, Nepal

- Assisted in containerizing applications and deploying them to ECS using GitHub Actions.
- Wrote shell scripts to automate deployment and server monitoring tasks.
- Collaborated on building staging environments and troubleshooting infrastructure issues.
- Learnt best practices around IaC with Terraform and AWS services.

System Administrator

May 2023 – Mar 2024 — Everest IT Solutions, Kathmandu, Nepal

- Managed and maintained Linux servers and network services.
- Created and managed user accounts and permissions.
- Automated backups and system updates with Bash scripts.
- Monitored system health and fixed basic hardware and software issues.
- Assisted developers in deploying applications and resolving environmental issues.

Projects

Multi-Environment CI/CD Pipeline

Mar 2025 – Jun 2025— *GitHub Actions, Docker, CodePipeline, ECS*

Designed a fully automated build-and-deploy flow for dev, QA, and production environments. Pushed Docker images to AWS ECR; ECS services managed via task definitions and load balancers. Integrated Slack/Email alerts from CloudWatch for critical failures.

Scalable Microservices Deployment on AWS ECS

Nov 2024 – Feb 2025— *Docker, ECR, ECS, Security Groups, IAM, GitHub Actions*

Containerized multiple microservices and pushed images to AWS ECR. Deployed services on ECS Fargate with autoscaling and load balancers. Applied IAM roles, security groups, and task definitions to ensure secure deployment. Integrated GitHub Actions for build and deploy automation.

Monitoring and Alerting Setup for Production Infrastructure

Jul 2024 – Oct 2024— *AWS CloudWatch, Grafana, New Relic, EC2, ECS*

Configured CloudWatch dashboards and alarms to track EC2, ECS, and RDS metrics in real time. Set up Grafana to visualize system performance and custom application metrics. Integrated New Relic APM for detailed monitoring of containerized applications running in ECS. Defined alert thresholds for CPU, memory, and HTTP error rates; routed alerts to Slack and email for quick response.

Education

Bachelor of Information Management (BIM)

Tribhuvan University, Nepal

2019 – 2024

Certifications

- AWS Certified Cloud Practitioner – Credly Badge