

Ranjan Shrestha

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Professional Summary

Cloud & DevOps Engineer with 6+ years of experience designing and automating cloud-native infrastructure and CI/CD pipelines across AWS and Azure. Proven expertise in Terraform, Ansible, Kubernetes, and Docker to deliver scalable, secure, and cost-efficient systems. Skilled in implementing cloud security best practices, performance monitoring, and disaster recovery strategies. Passionate about enabling reliable healthcare and enterprise systems through cloud transformation.

Core Skills

- **Cloud Platforms:** AWS (EC2, S3, IAM, EKS, RDS, DynamoDB, Lambda), Azure (VMs, Blob, AKS)
- **IaC & Automation:** Terraform, Ansible, CloudFormation
- **CI/CD Pipelines:** GitHub Actions, CircleCI, GitLab CI, ArgoCD, FluxCD
- **Containers & Orchestration:** Docker, Kubernetes, Helm
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack
- **Security & Networking:** IAM, Security Groups, VPNs, Firewalls, CIS Benchmarks, Disaster Recovery
- **Languages & Scripting:** Python, Bash, C/C++
- **Collaboration Tools:** Git, Jira, Confluence, Slack

Professional Experience

DevOps Engineer | Identv Nepal Pvt. Ltd.

Nov 2021 – Mar 2025

- Designed and deployed scalable AWS infrastructure (EKS, RDS, S3, IAM) to support business-critical applications with 99.9% uptime.
- Automated provisioning with Terraform and Ansible, cutting environment setup time by 65%.
- Built and optimized CI/CD pipelines using CircleCI and GitHub Actions, increasing deployment frequency and reducing failures by 40%.
- Implemented secure IAM policies and encryption practices to comply with industry standards.

- Integrated Prometheus and Grafana monitoring to proactively detect and resolve issues, reducing MTTR by 30%.
- Authored detailed cloud architecture documentation for internal knowledge sharing and compliance.

Network & Security Engineer | Cloudtech Solutions Pvt. Ltd.

Jun 2019 – Oct 2021

- Designed secure hybrid network architectures using VPNs, VLANs, and firewalls, strengthening data protection.
- Automated network provisioning and monitoring tasks with Bash scripts, reducing manual workload by 50%.
- Supported on-prem to cloud migration efforts, ensuring seamless transition to AWS/Azure.
- Developed standard operating procedures for LAN/WAN security and compliance.

Junior Support Executive | IMS Software Pvt. Ltd.

Dec 2018 – Mar 2019

- Provided Tier-1 technical support, reducing ticket backlog by 25%.
- Installed and configured enterprise software, streamlining client onboarding.
- Created training documentation for end users and technical staff.

Projects

- **EKS Setup with Terraform:** Automated AWS EKS cluster with IAM, load balancing, and persistent storage.
- **CI/CD Pipelines with CircleCI & GitHub Actions:** Built Docker images, pushed to ECR/ACR, and automated Kubernetes deployments.
- **K3s Provisioning with Ansible:** Delivered lightweight Kubernetes setup for client retail systems.
- **Cost Optimization via AWS Lambda:** Automated idle EC2 shutdown, reducing cloud spend by 25%.
- **Database Backup Automation:** Kubernetes CronJob for MongoDB backup to AWS S3/Azure Blob.

Training

- Hashcorp Certified Terraform Associate
- AWS Certified Solutions Architect – Associate
- Certified Kubernetes Administrator (CKA)

- **Microsoft Certified: Azure Fundamentals (2021)**
- **Cisco Certified Network Associate (CCNA) (2018)**

Education

Master of Science in Cloud Computing (In Progress – May 2025)

University of Fairfax, Virginia

Bachelor of Engineering in Computer Engineering

Himalaya College of Engineering, Tribhuvan University | 2015 – 2018 | 81%

Final Project: Facial Emotion Recognition and Analysis (Python)