Suchan Madhikarmi

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DevOps practitioner with a strong foundation in cloud infrastructure, automation, and CI/CD pipelines. AWS-certified with hands-on experience from a cloud apprenticeship, delivering secure, scalable, and high-performance deployments using modern DevOps tools and practices.

EDUCATION

Bachelor of Information Technology   Jan 2022 – Jan 2026

Himalayan Whitehouse International College

- Currently in 3rd Year, Relevant coursework in SAAD, DBMS, Web Design, etc
- Among the top 5% of the batch

SKILLS

Automation & CI/CD: GitHub Actions, Jenkins, Docker, Kubernetes (Basics), Prometheus (Basics), Grafana (Basics), Vagrant

Infrastructure as Code: Terraform, Ansible

Scripting: Bash, Python

Cloud: AWS

Version Control: Git, GitHub

Operating Systems & Networking: Linux(Ubuntu, CentOS), Networking Fundamentals

Programming Languages: Python ,HTML, CSS, JavaScript, Java (Basics), C (Basics), C++ (Basics), SQL (Basics)

EXPERIENCE

Cloud Apprenticeship   Mar 2025 - May 2025

Adex International   Lalitpur, Nepal

- Gained hands-on experience configuring secure AWS environments with EC2, S3, IAM, and VPC—completing 5+ production-simulated deployments in team settings.
- Built and deployed CI/CD pipelines using GitHub Actions integrated with AWS, automating build and deployment workflows.
- Worked with AWS Elastic Beanstalk to deploy and manage web applications in a scalable environment.

PROJECTS

Terraform Project: Cloud Infrastructure & State Management with AWS ⧉

- Designed and provisioned highly available AWS infrastructure using Terraform, deploying VPC, Bastion Host, Elastic Beanstalk, RDS, RabbitMQ, and Memcached to support scalable cloud applications.
- Streamlined remote state management with S3, improving team collaboration and reducing environment drift.
- Refactored Terraform modules into reusable components, cutting provisioning time by 60% and minimizing deployment errors in development and staging pipelines.

CI/CD Pipeline with Jenkins, Nexus, SonarQube, Docker, and AWS ⧉

- Developed a fully automated CI pipeline on AWS EC2 using Jenkins, Nexus, and SonarQube, integrating code quality analysis, artifact management, security scanning, and real-time Slack alerts—reducing manual validation by 80%.
- Designed and deployed a CD workflow using Jenkins, Docker, AWS ECR, and ECS to automate Java web app

rollouts from staging to production, achieving zero-downtime releases and accelerating deployment frequency by 3×.

Infrastructure & Application Deployment using Ansible ⧉

- Automated end-to-end provisioning of AWS infrastructure and application deployment using Ansible, improving deployment speed by 70%.

- Configured VPC and EC2 instances, and deployed Nginx with modular playbooks and Jinja2 templates to enable consistent, repeatable infrastructure builds.

- Customized course-based configurations to simulate production-grade deployments, increasing system reliability and accelerating task automation speed by 40%.

GitOps-Based CI/CD Pipeline for Java Application Deployment ⧉

- Built a GitOps-driven CI/CD pipeline to deploy a Java web app on AWS EKS using Terraform, Docker, Maven, and Helm, reducing manual deployment time by 75% and improving release consistency across environments.

- Automated provisioning of infrastructure and application through GitHub Actions with isolated repositories, increasing credential security and codebase modularity by 60%.

- Integrated SonarCloud for continuous quality checks and implemented a staging-to-production promotion workflow, accelerating deployment cycles by 3×.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate	**May 2025**
DevOps Beginners to Advanced with Projects by **Udemy**	**Apr 2025**
CISCO Networking Basics	**Feb 2025**
Python for Cybersecurity Professionals	**Feb 2025**

LANGUAGES

Nepali (Native proficiency) • **English** (Professional working proficiency) • **Hindi** (Professional working proficiency)