BIRAJ ADHIKARI

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Professional Summary

Computer Science student interested in DevOps, cloud systems, and automation. Eager to apply technical knowledge in real-world environments and gain hands-on experience with deployment, containerization, and cloud infrastructure.

Technical Skills

Operating Systems	Linux, Mac OS, Windows
Cloud and Infrastructure	AWS (EC2, VPC, S3, IAM), Terraform
Containerization & Orchestration	Docker, Kubernetes
CI/CD & DevOps Tools	GitHub Actions, Jenkins, Linux CLI
Programming/DB	Python, PostgreSQL, Prisma ORM
Version Control	Git, GitHub

Academic Profile

Course	Institution	Board/University	Year
B.Sc. CSIT	Birat Kshitiz College	Tribhuvan University	2021–Present
+2	Pokhariya Secondary School	NEB	2018–2020

Projects

Automated CI/CD Pipeline with GitHub Actions
Tools: GitHub Actions, Docker, Nginx, AWS EC2
Built and deployed an automated pipeline for a Node.js app to EC2 using Docker and Nginx.

- Integrated test, build, and deployment workflows with GitHub Actions.
- Reduced manual deployment time and improved reliability.

Cloud Infrastructure Automation using Terraform

Tools: Terraform, AWS (EC2, S3, IAM)
Created IaC scripts for automated AWS resource provisioning.

- Defined infrastructure as code using reusable Terraform modules.
- Simplified EC2 + S3 deployment and IAM role setup.

Containerized Microservices Application

Tools: Docker, Docker Compose, Node.js, PostgreSQL
Developed and containerized a full-stack multi-service web app.

- Built separate API and database containers for modular scalability.
- Improved deployment consistency across environments.

Kubernetes Cluster Deployment

Tools: Minikube, Kubernetes, YAML, Docker
Deployed a Dockerized application into a Kubernetes cluster.

- Managed Pods, Deployments, and Services for orchestration and load balancing.

Automated Backup & Recovery System

GitHub Actions workflow to automatically back up a PostgreSQL database every 12 hours and upload it to AWS S3 using IAM-based secure access.

Trainings

- Coursera: DevOps Beginners to Advanced with Projects
- Coursera: The Complete SQL Bootcamp
- Coursera: : The Complete Python Bootcamp