Alok Kumar Upadhyay

DevOps Engineer | AWS Cloud Engineer

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SUMMARY

DevOps & AWS Cloud Engineer with hands-on experience building production-style CI/CD pipelines, containerized deployments and Infrastructure as Code on AWS. Experienced in Docker, Kubernetes, Terraform, and monitoring tools through real-world projects and internship exposure. Passionate about automation, cloud-native technologies and reliability engineering.

TECHNICAL SKILLS

Cloud Plateforms: AWS (EC2, S3, IAM, VPC, Application Load Balancer, Auto Scaling, Launch Template)
DevOps & CI/CD: Jenkins, GitHub Actions, CI/CD Pipelines Design, Automation
Containers & Orchestration: Docker, Kubernetes
Infrastructure & Configuration: Terraform, Ansible
Monitoring & Logging: Prometheus, Grafana, AWS CloudWatch
Programming & Scripting: Python, Bash(Shell Scripting)
Version Control: Git, GitHub
OS & Fundamentals: Linux Administration, Networking (OSI, TCP/IP, Subnetting, Firewall, Load Balancing)

EXPERIENCE

DevOps Intern — Sep 2025 – Present
Eucoders Technologies Pvt Ltd — *Lucknow, India*

- Trained on AWS cloud fundamentals including EC2, VPC, Subnets, Security Group, IAM, S3, ALB, and ASG.
- Built and deployed hands-on projects simulating real-world infrastructure using AWS services.
- Implemented CI/CD pipelines using GitHub Actions for automated deployment workflows.
- Practiced Infrastructure as Code (IaC) using Terraform to provision cloud resources.
- Worked with Linux systems for server setup, Nginx configuration, and troubleshooting using logs.
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PROJECTS

CloudShip — End-to-End DevOps CI/CD Pipeline

- Built end-to-end CI/CD pipeline automating build and deployment workflows
- Containerized and deployed application on Kubernetes
- Provisioned AWS infrastructure using Terraform
- Implemented monitoring with Prometheus and Grafana
- Applied secure secret management in CI/CD pipelines

Terraform AWS Infrastructure Project

- Designed AWS infrastructure using Terraform including VPC, subnets, ALB, and EC2
- Implemented modular Terraform architecture for reusable infrastructure
- Configured remote backend with S3 and DynamoDB for state locking
- Debugged Terraform module and dependency issues

CI/CD Pipeline with GitHub Actions and AWS

- Designed CI/CD pipeline using GitHub Actions for automated deployments of web application to AWS
- Used S3 as artifact storage and implemented versioned releases (v1, v2) with rollback mechanism
- Secured pipelines using GitHub Secrets and IAM roles
- Designed deployment flow where EC2 instances automatically pulled updated content

EDUCATION

Axis Institute of Technology & Management — Kanpur, India
B Tech, Computer Science & Engineering — *2022 - 2025*

Mahamaya Polytechnic of Information Technology — Siddhartha Nagar, India
Diploma, Computer Science & Engineering — *2019 - 2022*