

# 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 Platforms:** 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

Lucknow, India

*Eucoders Technologies Pvt Ltd*

- 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.

## 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