

# Alok Kumar Upadhyay

DevOps Engineer | AWS Cloud Engineer

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## SUMMARY

AWS Cloud & DevOps Engineer with hands-on experience in building production-style AWS infrastructure, automating CI/CD pipelines. Strong in troubleshooting and improving reliability.

Seeking a Fresher DevOps Engineer role where I can contribute with hands-on skills in AWS, CI/CD, Docker, and Terraform while continuously learning and growing.

## 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 (Basics)

**Infrastructure & Configuration:** Terraform, Ansible (Basics)

**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

June. 2025 – Present

*Eucoders Technologies Pvt Ltd*

Lucknow, India

- Managed AWS services such as EC2, S3, IAM, VPC, and ALB for secure and scalable deployments.
- Built and maintained CI/CD pipelines using Jenkins and GitHub Actions to automate build and deployment workflows.
- Containerized applications using Docker for consistent environments across development and deployment.
- Used Terraform to provision and manage AWS infrastructure as Infrastructure as Code (IaC), improving repeatability and reliability.
- Troubleshoot Linux and server-level issues, improving system stability and reducing downtime.

## PROJECTS

### Terraform AWS Infrastructure Project

- Built AWS infrastructure using Terraform including VPC, subnets, security groups, ALB, and EC2.
- Used Infrastructure as Code principles for repeatable deployments.
- Configured remote backend using S3 and DynamoDB for state management and locking.
- Practiced modular Terraform structure and variable-driven configuration.
- Gained hands-on experience debugging Terraform errors and fixing module interface issues.

### CI/CD Pipeline with GitHub Actions and AWS

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

### Production-Ready Web Application on AWS

- Designed and deployed a production-style AWS architecture using EC2, VPC, ALB, and Auto Scaling Group.
- Built highly available infrastructure with multi-AZ subnets and self-healing behavior.
- Configured Nginx web server on EC2 instances using Linux and user-data scripts.
- Implemented real troubleshooting for issues related to networking, security groups, and instance recovery.

## 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