

# NIKHIL ACHOLIYA

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## PROFESSIONAL SUMMARY

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DevOps engineer with experience in AWS cloud infrastructure, Terraform-based Infrastructure as Code (IaC), CI/CD pipeline automation, and container orchestration using Docker and Kubernetes. Provisioned production-grade AWS environments (EC2, VPC, IAM, EKS, ALB, Auto Scaling) via Terraform modules, slashed reduced release cycles by 70% through Jenkins and Docker automation, and established centralized monitoring for microservices with Prometheus, Grafana, and ELK. HashiCorp Terraform Associate certified and AWS Cloud Practitioner certified; targeting DevOps and Cloud Engineering roles.

## TECHNICAL SKILLS

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- **Cloud & Infrastructure:** AWS — EC2, S3, VPC, IAM, ALB, Auto Scaling Groups, EKS, EBS, Lambda, API Gateway, DynamoDB, CloudWatch
- **DevOps & Automation:** Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD Pipelines, Infrastructure as Code (IaC)
- **Monitoring & Observability:** Prometheus, Grafana, ELK Stack (Elasticsearch, Kibana, Filebeat), AWS CloudWatch
- **Programming:** Python, Bash Scripting, YAML, HCL
- **Tools:** Git, GitHub, Linux, Terraform Cloud, Helm (basic)

## EXPERIENCE

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### DevOps Engineer Intern

December 2025 – Present

*Sbit System Private Limited*

*Jaipur, India*

- Build and maintain CI/CD workflows for AWS-hosted microservices using Terraform, Jenkins, and GitHub Actions, cutting failed release rates by 55% through pre-merge validation gates and scripted rollback logic.
- Configure AWS resources (EC2, S3, IAM, CloudWatch) via Terraform scripts, shrinking environment setup time by 40% and establishing version-controlled, reproducible cloud baselines.
- Instrument application services with CloudWatch dashboards and metric alarms, trimming mean time to detection (MTTD) for production incidents by 30% through threshold-based alerting.

### DevOps Engineer

[September 2025] – [November 2025]

*Regex Software Services*

*Jaipur, India*

- Engineered end-to-end CI/CD pipelines using Jenkins and Docker for multi-service applications, slashing deployment time by 70% and eliminating manual handoffs between development and operations teams.
- Provisioned and scaled AWS resources — EC2, ALB, Auto Scaling Groups, and S3 — using reusable Terraform modules, lowering provisioning overhead by 45% and ensuring consistent tiers across all environments.
- Deployed Prometheus and Grafana for infrastructure-wide observability and alerting, dropping mean time to resolution (MTTR) for critical incidents by 40% through automated threshold notifications.

## PROJECTS

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### 100 Days AWS Terraform Challenge | Terraform, AWS (EC2, VPC, IAM, ALB, ASG, EBS, CloudWatch)

- Constructed production-grade AWS infrastructure across 100+ Terraform configurations covering EC2, VPC, IAM, ALB, Auto Scaling Groups, EBS, and metric alerts — applying reusable module patterns and remote state management throughout.
- Authored modular Terraform code that reduced configuration duplication by 60% and shaved new environment provisioning time by 50%, with full lifecycle managed via Terraform Cloud remote backends.

### EKS 2048 Application Deployment | AWS EKS, Terraform, Kubernetes, Application Load Balancer

- Launched a containerised application on AWS EKS using Terraform-provisioned infrastructure, configuring Kubernetes manifests and an Application Load Balancer for traffic distribution across 2+ availability zones.
- Wired Kubernetes Horizontal Pod Autoscaler and ALB health checks to sustain 99.9% service availability during simulated load spikes, achieving zero-downtime horizontal scaling with no manual intervention.

### Serverless User API | AWS Lambda, API Gateway, DynamoDB, Terraform

- Designed and deployed a serverless REST API on AWS Lambda and API Gateway backed by DynamoDB, handling full CRUD operations with average response latency under 50ms.

- Defined the complete serverless stack as Terraform templates, enabling one-command deployment with full infrastructure versioning and instant rollback capability across all stages.

#### **ELK Log Monitoring Stack** | Elasticsearch, Kibana, Filebeat

- Established centralised log aggregation across distributed services using Elasticsearch, Kibana, and Filebeat, reducing average log search time by 80% compared to fragmented per-service queries.
- Built custom Kibana dashboards and alert rules for application error rates and latency anomalies, accelerating incident triage by 35% and improving end-to-end observability across all service tiers.

## **EDUCATION**

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### **B.Tech — Information Technology**

Poornima College of Engineering

*[2021] – [2025]*

*Jaipur, India*

## **CERTIFICATIONS**

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- HashiCorp Certified: Terraform Associate (2026)
- AWS Certified Cloud Practitioner (November 2025)
- Introduction to Linux (November 2025)