

# Tripti Singh

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## SUMMARY

Cloud & DevOps Engineer with 3+ years of experience designing, automating, and operating scalable, secure AWS cloud infrastructure. Proven expertise in building end-to-end CI/CD pipelines, Kubernetes-based deployments, and Infrastructure as Code to enable reliable and high-performance production systems.

## KEY SKILLS

Git, GitHub, GitLab, GitOps | Ansible, Terraform(IaC) | Jenkins, Maven | Docker, Kubernetes, Helm | Prometheus, Grafana, EKS, ELK Stack, OPA, Istio, ArgoCD | Bash, Python | Nginx, HAProxy | Linux, AWS | Gen AI, DevSecOps, Python, Shell Scripting.

## EXPERIENCE

Intellipaat | On Site

Jul '23 - Present

### *Team Lead | Cloud Engineer - Technical Department*

Implemented and optimized DevOps tools like Kubernetes, Docker, Jenkins, Prometheus, Git, Ansible, and Terraform to enhance the SDLC process, reducing deployment cycles by 40%.

Engineered highly scalable, secure AWS environments (EC2, S3, IAM, VPC, RDS), resulting in a 50% increase in system uptime and a 30% reduction in operational costs.

Developed cost-effective AWS cloud solutions, achieving a 15% decrease in infrastructure expenses while maintaining high security and performance.

Enhanced system monitoring and troubleshooting capabilities using Prometheus, Grafana, and AWS CloudWatch, leading to a 40% reduction in downtime.

Led technical discussions and troubleshooting sessions, ensuring smooth project deployments and quick resolution of issues at client sites.

## PROJECTS

### Python Flask CI/CD Pipeline

- Built end-to-end CI/CD pipeline with Jenkins & GitHub Webhooks.
- Automated build, test, Docker image creation, and Docker Compose deployments.
- Improved deployment reliability & reduced manual errors by 90%.

### Dockerized Web App with PostgreSQL

- Containerized Flask & PostgreSQL app with Docker; persistent storage & secure networking.
- Standardized local & production deployments for reproducibility.
- Ensured high availability and maintainable infrastructure.

### Swift DevOps Integration

- Implemented organization-wide DevOps lifecycle with Jenkins, Ansible & Git workflows.
- Standardized CI/CD pipelines & Git branching, reducing deployment errors by 85%.
- Automated multi-team build, test, and deployment workflows.

### Automating Monthly Releases with Kubernetes

- Orchestrated applications using Kubernetes & Helm; implemented zero-downtime deployments.
- Streamlined monthly release cycles with Git workflows, AWS CodeBuild & Jenkins.
- Enhanced monitoring & observability using Prometheus & Grafana.

### Ansible 3-Tier AWS Deployment

- Automated 3-tier (Web → App → DB) deployment on AWS EC2 using Ansible.
- Configured Nginx, Flask, & MySQL with secure networking and high availability.
- Delivered repeatable, idempotent infrastructure aligned with IaC best practices.

## CERTIFICATIONS

- AWS Solution Architect from AWS
- Certified in Python language from HackerRank and IBM

(Issued on April 2025)

(Credential ID 7DBA47F89A375)

## EDUCATION

### Government Engineering College UP, India

Bachelor of Technology - Computer Science and Engineering

GPA: 8.5

- **Head Coordinator:** Awarded for exceptional leadership and significant contributions to community service.