

Shivani Barya

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PROFESSIONAL SUMMARY

DevOps Engineer with hands-on experience in AWS, Docker, Kubernetes, Terraform, Jenkins, and CI/CD automation. Skilled in designing scalable cloud infrastructure and implementing Infrastructure as Code (IaC). Experienced in building 3-tier architecture on AWS, containerization, and SonarQube integration for code quality and security. Strong problem-solving mindset focused on automation, reliability, and performance optimization.

TECHNICAL SKILLS

Cloud: AWS (EC2, S3, VPC, EKS, ECS, Lambda, IAM, CloudFront, RDS)

CI/CD Tools: Jenkins, Git, GitHub, GitLab, Maven, Nexus, SonarQube

Containers: Docker, Kubernetes

Infrastructure as Code: Terraform

Scripting: Python, Bash, Groovy

Databases: MySQL, Amazon RDS

Operating Systems: Linux (Ubuntu), Windows

Networking: Routing, Subnetting, Security Groups, Firewalls

Deployment Strategies: Blue-Green, Rolling Deployment

EDUCATION

Master of Computer Applications (MCA)	2023 – 2025
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SAGE University, Bhopal | CGPA: 9.05

Bachelor of Science (Hons) in Biotechnology	2017 – 2020
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Bundelkhand University, Jhansi | CGPA: 6.00

Intermediate Examination	2014 – 2015
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Saint D S Convent Inter College Lalitpur | 68.8%

PROJECTS

Terraform IaC Automation	Jan 2026
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Technologies: Terraform, AWS (VPC, EC2, S3, IAM), Git

- Created and Enforced Infrastructure as Code (IaC) using Terraform to automate AWS resource provisioning (VPC, EC2, S3, IAM).
- Eliminated manual configuration errors and improved infrastructure consistency.

- Version-controlled Terraform scripts using Git for collaboration and reproducibility.
- Reduced environment setup time by 70% through automated infrastructure deployment.

CI/CD Automation Project

Dec 2025

Technologies: Jenkins, GitLab, Docker, Kubernetes, SonarQube

- Developed and Applied an end-to-end CI/CD pipeline automating build, test, security scan, and deployment stages.
- Containerized applications using Docker and deployed them on Kubernetes clusters.
- Integrated SonarQube for static code analysis and vulnerability scanning.
- Optimized deployment efficiency by 50% and minimized manual release effort.

Deploy 3-Tier Architecture on AWS

May 2025

Technologies: AWS (VPC, EC2, RDS, ALB, Auto Scaling, IAM, S3, Security Groups, NAT Gateway)

- Architected a secure and highly available 3-tier architecture using custom VPC and multi-AZ deployment.
- Configured public and private subnets to ensure network isolation and fault tolerance.
- Deployed EC2, RDS, ALB, and Auto Scaling to achieve scalability and high availability.
- Executed IAM policies, security groups, NAT Gateway, and S3 for secure and optimized cloud operations.

PROFESSIONAL EXPERIENCE

DevOps Trainee – Q-Spiders

Jun 2025 – Present

- Administered AWS services including EC2, S3, VPC, IAM, Lambda, CloudWatch, and Auto Scaling.
- Automate deployment and configuration using Bash and Python scripting.
- Built and managed CI/CD pipelines using Git, Jenkins, Docker, Kubernetes, and Terraform.
- Implemented DevOps best practices including version control, containerization, IaC, and monitoring.

CERTIFICATIONS

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| • AWS Cloud Practitioner Essentials <u>Certificate</u> | Nov 2024 |
| • Fundamentals of Cloud Security <u>Certificate</u> | Sep 2024 |
| • Oracle Certified Foundation Associate <u>Certificate</u> | Sep 2024 |

KEY ACHIEVEMENTS

- Strong understanding of DevOps and cloud fundamentals
- Hands-on experience through academic and personal projects.
- Good problem-solving and automation mindset.
- Willingness to learn and adapt in fast-paced environments