

Shivank Kumar

DevOps Engineer

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Professional Summary

Results-driven DevOps Engineer with extensive hands-on experience architecting, automating, and scaling cloud infrastructure on AWS. Proficient in Infrastructure as Code using Terraform, container orchestration with Kubernetes and Docker, and building end-to-end CI/CD pipelines with GitHub Actions, AWS CodeBuild, and ArgoCD. Adept at reducing deployment cycles, eliminating manual toil, and improving system reliability through intelligent automation and proactive monitoring. Brings a strong foundation in Linux administration and a security-first mindset to every layer of the stack. Passionate about crafting clean, maintainable infrastructure that empowers engineering teams to ship faster with confidence - consistently delivering solutions that are not just functional, but resilient and built to scale.

Experience

DevOps Engineer

Dec 2025 - Present

India Accelerator - Gurugram, Haryana

- Orchestrated and managed 20+ microservices on Amazon EKS across staging and production environments, implementing rolling updates, health checks, and auto-scaling policies - reducing deployment failures by 40% and ensuring zero-downtime releases.
- Engineered end-to-end CI/CD pipelines using AWS CodeBuild and GitOps with branch-based deployment strategies, cutting manual release effort by 60% and reducing average deployment time from 45 minutes to under 10 minutes.
- Architected and provisioned cloud infrastructure using Terraform across AWS and GCP, building 10+ reusable modules that reduced infrastructure provisioning time by 70% and eliminated environment inconsistencies.
- Administered PostgreSQL and MySQL RDS databases with comprehensive monitoring, alerting, and performance tuning - improving query response time by 35% and reducing database-related incidents by 50%.
- Sustained 99.9%+ application uptime across production workloads by applying SRE practices including proactive monitoring, on-call incident response, and post-mortem-driven reliability improvements - reducing MTTR by 45%.
- Implemented cloud security best practices including IAM least-privilege policies and secrets management across multi-cloud environments, reducing security misconfigurations by 80% and achieving full compliance with internal security standards.
- Operated in Linux-based environments (Ubuntu/Amazon Linux), writing 15+ Bash automation scripts for log analysis, cron scheduling, and system administration - saving approximately 8 hours of manual work per week.

DevOps Intern

July 2025 - Oct 2025

CloudTechie Pvt Ltd - Indore, Madhya Pradesh

- Designed and implemented CI/CD pipelines using GitHub Actions, automating deployments for 5+ applications and reducing manual deployment effort by 55%.
- Deployed and managed Dockerized applications on AWS (EC2, ECS, IAM), supporting a containerized infrastructure that improved application portability and reduced environment setup time by 50%.
- Automated 10+ operational tasks using Bash and Python scripting, eliminating repetitive manual processes and saving approximately 6 hours of engineering time per week.
- Set up end-to-end monitoring and observability stack using Prometheus, Grafana, and AWS CloudWatch, reducing mean time to detect (MTTD) incidents by 40% and improving overall system visibility.

Skills

Programming Languages:	Python
Cloud Platform:	AWS, GCP
Containerization & Orchestration:	Docker, Kubernetes, Helm
CI/CD & GitOps:	GitHub Actions, Jenkins, CircleCI, ArgoCD
Infrastructure as Code (IaC):	Terraform
Configuration Management:	Ansible
Monitoring & Logging:	Prometheus, Grafana, ELK Stack, CloudWatch, Datadog
Scripting & Automation:	Python, Bash
Operating System:	Linux, MacOS, Windows
Version Control:	Git, GitHub
Networking:	TCP/IP, DNS, Load Balancing, VPC, Subnets, Security Groups
Databases:	MySQL, MongoDB, PostgreSQL

Education & Certifications

- **Master of Computer Applications (DevOps, Online) - Manipal University Jaipur** 2026 Pursuing
- **Bachelor of Science (Mathematics, 70%) - IGNOU** Completed 2025
- PW Skills: DevOps And Cloud Computing (2025)
- Oracle: DevOps And Cloud Infrastructure Professional (2026)
- Skills India: Information Technology (2021)

Projects

Multi-Environment EKS Deployment with CI/CD Automation AWS, K8s, Terraform, GitOps

- Deployed 3 microservices on Amazon EKS under a single domain using Kubernetes Ingress, managing separate staging and production environments with environment-specific configurations - reducing environment setup time by 65%.
- Built end-to-end CI/CD pipelines using AWS CodeBuild with branch-based deployment strategy - feature branches targeting staging and main branch triggering production releases following GitOps principles, cutting deployment time by 60% and supporting a full 3-environment SDLC.
- Provisioned and managed MariaDB RDS instances for both staging and production environments, ensuring data isolation, automated backups, and environment parity - achieving zero data-bleed incidents across environments.
- Configured Slack notifications integrated with AWS CodeBuild pipelines to deliver real-time deployment alerts, reducing mean time to detect (MTTD) build failures by 50% and enabling instant visibility into environment status.
- Implemented GitOps-driven workflows with environment promotion gates, maintaining full deployment traceability across the SDLC and reducing rollback time by 40%.

Full-Stack Application Deployment on Amazon ECS AWS, ECS, ECR, GHA, RDS, Redis

- Designed and provisioned a custom AWS VPC with public/private subnets, route tables, and Internet Gateway (IGW), isolating all application resources within a secure dedicated network - eliminating public exposure of backend services.
- Deployed full-stack application (frontend and backend) on Amazon ECS using ECR for Docker image management, achieving 99.9% container uptime with task-based resource separation across a single cluster.
- Built CI/CD pipelines using GitHub Actions to automate Docker image builds, ECR pushes, and ECS service deployments on every code push - reducing manual deployment effort by 70%.
- Provisioned PostgreSQL RDS, Redis, and ECS within the same VPC using private subnets, ensuring fully secure internal service communication with zero public internet exposure.
- Configured environment-specific infrastructure with separate subnets for compute (ECS) and data layers (RDS, Redis), following AWS networking best practices and reducing infrastructure misconfiguration risk by 60%.