

# Chirag Sharma

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## Summary

DevOps Engineer with 3+ years of experience in AWS, Kubernetes (EKS), CI/CD automation, and infrastructure-as-code using Terraform, Ansible, Python, and Bash. Skilled in designing reliable, secure cloud environments and improving deployment workflows. Strong focus on observability, maintainability, and building automation that reduces manual effort and operational complexity.

## Experience

### **Software Engineer - DevOps | 07/2023 - Present | Worldpay Pvt Ltd. | Pune, MH**

- Designed and maintained scalable AWS infrastructure using Terraform and CloudFormation across production and staging environments, ensuring secure network architecture, IAM governance, and cost-efficient resource utilization.
- Automated infrastructure and system operations using Bash, Python, and Ansible, reducing repetitive tasks and improving consistency in provisioning, configuration, and environment setup.
- Implemented and optimized CI/CD pipelines in Jenkins, enabling reliable build, test, and deployment workflows with structured rollback paths and environment-specific validation.
- Deployed and managed containerized services across OpenShift and Kubernetes by authoring and maintaining deployment, service, and rollout strategy YAMLs aligned with best practices.
- Designed and supported a PostgreSQL high-availability and disaster recovery architecture using Patroni, pgBackRest, PgBouncer, and HAProxy, including multi-region replication, WAL archiving, and failover workflows.
- Automated OS-level migration from Amazon Linux 2 to RHEL 9, creating hardened base AMIs with SELinux enforcement, optimized system configurations, and validated service compatibility.

### **DevOps Engineer | 07/2022 - 07/2023 | SquareOps Technologies | Gurugram, HR**

- Built and operated Kubernetes environments using Amazon EKS, K3s, and Kubeadm-based clusters to support internal platforms and client-facing microservices.
- Designed and implemented CI/CD pipelines using AWS CodePipeline, CodeBuild, Jenkins, Argo CD, and Helm, enabling automated builds, deployments, and GitOps-driven delivery workflows.
- Deployed and managed Jenkins and Argo CD via Helm and Helmfile within custom Kubernetes pods, standardizing deployment processes and improving environment reproducibility.
- Integrated a full observability stack using Prometheus, Grafana, Loki, and Alertmanager to monitor cluster health, detect resource bottlenecks, and surface application-level issues.
- Evaluated and implemented modern DevOps ecosystem tools including Rancher, Karpenter, Istio, and SonarQube, contributing to decisions around service mesh adoption, autoscaling strategies, and cluster governance.
- Developed internal automation tools and REST APIs using Django REST Framework to streamline operational tasks, centralize data collection, and improve team productivity.

## Projects

- **Reusable Terraform Module Library** :- Developed production-grade Terraform modules for VPC, ASG, EC2, LB, and networking components. Enabled reusable, environment-agnostic provisioning across multiple teams and reduced configuration drift.
- **Kubernetes GitOps Setup** :- Implemented a GitOps delivery model using ArgoCD and Helmfile to manage Kubernetes deployments across staging and production. Standardized rollout strategies, version control workflows, and multi-environment release automation.
- **Hardened Image Pipeline (AL2 → RHEL 9 Migration)** :- Built and automated the migration of Amazon Linux 2 servers to RHEL 9 with hardened, SELinux-enforced base images using Packer, Ansible, and Bash. Ensured compatibility, optimized configurations, and validated system services.
- **AWS Cost Reporting CLI (Python)** :- Developed a Python-based CLI tool using AWS Cost Explorer API to generate daily/weekly/monthly cost reports for EC2, EBS, and ELB. Supported CSV/JSON export, service-level filtering, and email-ready summaries for engineering teams.

## Technical Skills

- Cloud Platforms: AWS, GCP
- Infrastructure as Code: Terraform, CloudFormation
- Containerization & Orchestration: Docker, Kubernetes, Podman, Helm
- Programming & Automation: Python, Bash/Shell, Ansible
- CI/CD: Jenkins, GitLab CI, ArgoCD, AWS CodeBuild/CodeDeploy/CodePipeline
- Observability & Monitoring: Prometheus, Grafana, Zabbix, CloudWatch, Graylog
- Version Control & SCM: Git, GitHub, Bitbucket
- AMI & Image Management: Packer
- Databases: PostgreSQL, MySQL, MongoDB
- Operating Systems: Linux (RHEL/Amazon Linux), Windows

## Certification

- AWS Certified Solution Architect - Associate
- Hashicorp Certified Terraform Associate
- AWS Certified Cloud Practitioner
- IBM Docker Certified
- Introduction to GitOps - The Linux Foundation
- IBM Cloud Certification

## Education

- BE - University of Mumbai | CGPA - 8.1
- Wrote a research paper in **IEEE Xplore Conference** on Yoga Pose Detection
- Wrote a research paper in **UGC Care Journal 2022** on **Accident and No Accident Detection**