

SAHIL KHAIRNAR

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DevOps Engineer / Cloud Infrastructure / CI/CD Automation Engineering Professional



PROFILE SUMMARY

- DevOps Engineer with 4+ years of hands-on experience modernizing infrastructure, building automated CI/CD pipelines, and ensuring high-performing cloud environments across AWS, GCP and AZURE.
- Proficient in containerization, microservices orchestration, automation frameworks, and infrastructure-as-code to enable scalable, resilient, and secure deployments.
- Skilled in optimizing cloud workloads, monitoring distributed systems, and reducing operational overhead through automation and cost-control strategies.
- Strong background in Kubernetes, Docker, Terraform, and cloud-native toolchains, with proven ability to enhance deployment velocity and production stability.
- Experienced in DevSecOps practices, integrating security controls across CI/CD pipelines, cloud architectures, networking, and access governance.
- Collaborative team contributor adept at partnering with developers, QA, architects, and product teams to deliver reliable, optimized, and continuously improving platforms.

CORE COMPETENCIES

Cloud infrastructure management

Release and deployment automation

Environment provisioning

Configuration Management

DevSecOps practices

Disaster recovery

Incident Response

Root-Cause Analysis

Cross-functional Team Leadership

SOFT SKILLS



Collaborator
Communicator
Planner
Innovator
Leader

EDUCATION

- **Master of Computer Applications (MCA) / Government College of Engineering, Aurangabad / July 2018**



PROFESSIONAL EXPERIENCE

Tudip Technologies Pvt. Ltd., Pune, Maharashtra

DevOps Engineer | Jul 2021 - OCT 2025

- Built and maintained automated CI/CD pipelines using Git, Bitbucket, Jenkins, and AWS CodePipeline, improving deployment consistency and delivery speed.
- Containerized applications using Docker and managed large-scale workloads using Kubernetes, enhancing service availability and resource utilization.
- Automated cloud infrastructure provisioning through Terraform, managing AWS environments including VPC, EC2, ECS, EKS, RDS, and S3 configurations.
- Implemented centralized monitoring with CloudWatch, ELK, Grafana, and Prometheus to strengthen observability and reduce incident resolution time.
- Optimized application performance using load balancers, caching, CDN policies, and API gateway tuning to support high-traffic workloads.
- Developed disaster recovery workflows and automated backup routines, improving system resilience and reducing downtime incidents.
- Ensured security compliance by implementing IAM role controls, SSL/ACM certificates, AWS WAF, CloudFront, encryption standards, and secure VPN setups.
- Performed cloud cost management and optimization using AWS Cost Explorer, Azure Cost Management, and GCP Billing to reduce unnecessary expenditure.
- Collaborated closely with development teams to troubleshoot deployment failures, improve release quality, and enhance cross-team processes.

PROJECT EXPERIENCE:

OTT Platform

- Designed complete cloud infrastructure using AWS ECS for container orchestration, enabling scalable microservices deployment.
- Automated deployments through Terraform (IaC) for consistent, repeatable environment provisioning with version-controlled configurations.
- Implemented CI/CD through AWS CodePipeline and Jenkins for seamless integration and automated rollouts.
- Strengthened platform security using AWS GuardDuty, AWS WAF, and real-time alerting for threat detection and DDoS mitigation.

Finance Platform

- Designed, deployed, and managed Kubernetes clusters on Amazon EKS for scalable and resilient containerized workloads.
- Implemented Kafka for asynchronous communication and high-throughput data streaming between IoT devices and backend systems.
- Integrated SonarQube into CI/CD workflows to ensure code quality during pre-build validations.
- Automated Docker image builds and ECR deployments using Jenkins pipelines.
- Established monitoring dashboards in CloudWatch and Grafana for device analytics, performance tuning, and real-time insights.
- Deployed centralized logging and alerting solutions using ELK, Prometheus, and Grafana to enhance incident response.

VOD Orchestrator Management

- Independently managed end-to-end server-side operations for Video on Demand (VOD) infrastructure.
- Oversaw ingestion, metadata workflows, transcoding, storage, and large-volume content delivery.
- Utilized RabbitMQ for message queuing, MinIO for object storage, Wowza for streaming, and GPU-based transcoding for accelerated video processing.

MAJOR HIGHLIGHTS & CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified SysOps Administrator – Associate
- Successfully implemented cloud-native CI/CD processes reducing deployment durations and improving rollback reliability.
- Led multi-environment infrastructure automation initiatives with Terraform for production-grade workloads.
- Built monitoring and observability frameworks that reduced incident detection and troubleshooting time.
- Designed and optimized containerized architectures improving scalability, cost efficiency, and performance across multiple projects.

KEY STRENGTHS

- **Cloud Architecture Management:** Designing scalable AWS and GCP environments, resource optimization, security hardening, and cost governance.
- **Infrastructure Automation:** Expertise in Terraform, automation of environment provisioning, version-controlled IaC, and environment consistency.
- **Containerization & Orchestration:** Strong command over Docker, Kubernetes, ECS, and EKS for microservices deployment.
- **CI/CD Engineering:** Pipeline design using Jenkins, GitLab, Git, AWS CodePipeline, and Cloud Build for automated testing and deployments.
- **Observability & Incident Response:** Building monitoring stacks, log pipelines, dashboards, and alerting workflows for proactive issue resolution.
- **Security & Compliance:** IAM governance, certificate management, WAF configuration, VPN setups, network policies, and secure cloud operations.

IT / TECHNICAL EXPERTISE

- **Cloud:** AWS, GCP, AZURE
- **Version Control:** Git, GitLab
- **CI/CD Tools:** Jenkins, Cloud Build, AWS CodePipeline
- **Containerization:** Docker, Docker Swarm, Kubernetes
- **IaC:** Terraform
- **Monitoring & Logging:** ELK, Prometheus, Grafana, CloudWatch
- **Scripting:** Shell
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Cost Optimization:** AWS Cost Explorer, Azure Cost Management, GCP Billing
- **Networking:** OpenVPN setup and secure access management

PERSONAL DETAILS

- **Date of Birth:** 29/07/1996
- **Languages Known:** English, Hindi, Marathi
- **Address:** Pune, Maharashtra, India