

SUMAN MODAK

DevOps Engineer | AWS | Kubernetes | Terraform | Ansible | Jenkins | GitOps

Hyderabad, India | 8972136544 | sumanmodak456@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

DevOps Engineer at Jio Platforms Limited, working on live production deployed **JioSmartLiving**, a smart home and security automation platform: built CI/CD pipelines with Jenkins, automated infrastructure using Ansible and Terraform, managed containerized workloads with Docker Swarm, and monitored production systems with Zabbix, while supporting infrastructure migration from on-premises to AWS and GCP. Independently architected **Watchify**, an end-to-end DevOps project, pipelined on AWS EKS using Terraform, Jenkins CI/CD with Trivy/OWASP/SonarQube scanning, ArgoCD GitOps, IRSA, and ALB ingress

SKILLS

Cloud Platforms: AWS (EC2, EKS, VPC, IAM, S3, RDS, ALB, ACM, Route 53, VPC Endpoints, CloudWatch), GCP, On-Premises

Containerization & Orchestration: Docker, Docker Swarm, Kubernetes (K8s), Helm, NGINX Ingress Controller

CI/CD & GitOps: Jenkins, ArgoCD (GitOps)

IaC & Config Mgmt: Terraform (modules, remote state, workspaces), Ansible (playbooks, roles, inventory)

Monitoring & Logging: Prometheus, Grafana, Zabbix, CloudWatch, ELK Stack

Security & DevSecOps: Trivy (Image Scanning), OWASP Dependency-Check, SonarQube, HashiCorp Vault, IAM/IRSA

Networking: Nginx (reverse proxy), ALB Ingress, VPC/NAT/Route Tables, DNS, TCP/IP, VPN, Firewalls, CIDR, SSL/TLS (Let's Encrypt)

Scripting & OS: Linux (Ubuntu), Bash, Python, Java

Version Control & Registry: Git, GitHub, Docker Hub

WORK EXPERIENCE

DevOps Engineer — Jio Platforms Ltd

12/2023 – Present

Jio SmartLiving — smart home and security automation platform

- Automated configuration management and security assessments (baseline, vulnerability & malware) across Linux servers using Ansible playbooks, cutting manual effort by **85%** and increasing operational productivity by **90%**.
- Deployed real-time infrastructure monitoring with Zabbix on Ubuntu servers and integrated Telegram-based alerting, reducing incident response time and sustaining **~99.9% service availability**.
- Orchestrated containerized workloads with Docker Swarm across distributed production nodes, improving application scalability and reducing failed-deployment incidents.
- Built and maintained end-to-end CI/CD pipelines in Jenkins, reducing deployment time by **80%** through automated build, test, and release workflows.
- Provisioned and managed multi-environment infrastructure as code with Terraform, enabling rapid, repeatable, version-controlled environment setup and cutting manual provisioning effort.
- Led infrastructure migration from on-premises to AWS and GCP, improving scalability and reliability, while driving the ongoing transition to Kubernetes-based container orchestration.

JIO Device HeartBeat — monitoring platform for 33M+ Jio devices (JioFiber, AirFiber, IoT)

- Monitored real-time device health across **33M+ endpoints**, processing **~75 billion heartbeat signals daily** emitted every 30 minutes per device.
- Enhanced automation workflows toward zero-downtime operations by proactively identifying and resolving signal-reception dips across the device fleet, reducing missed-signal incidents.
- Partnered with development, QA, and infrastructure teams during incident response and release planning, contributing to root-cause analysis and observability improvements across high-volume, low-latency pipelines.

PROJECTS

Watchify — Personal DevOps Project — github.com/t20suman-glitch/watchify

06/2026 – Present

- Architected an end-to-end CI/CD + GitOps workflow for a 4-service microservices platform on AWS EKS, including Jenkins pipelines with shared libraries (DRY) for image builds, automated security gates (Trivy, OWASP Dependency-Check, SonarQube), and ArgoCD-driven continuous deployment for consistent, auditable releases.
- Engineered infrastructure including VPC (public/private subnets, NAT), a private-networked EKS cluster, encrypted S3 storage, and IAM/IRSA roles, with Helm-managed AWS Load Balancer Controller for ALB ingress and SSL/TLS via Let's Encrypt on a custom domain (watchify.sumanmodak.in).
- Authored reusable Kubernetes manifests (Deployments, Services, StatefulSet, ConfigMap, Secrets, Ingress, ServiceAccount) with a MongoDB persistent volume, designed for easy scaling and new service onboarding.
- Implemented modular, multi-environment Terraform with remote state in S3 and DynamoDB locking to prevent concurrent-apply conflicts, reducing time-to-deploy for new releases.

EDUCATION

B.Tech, Electronics & Communication Engineering — JIS College of Engineering

08/2019 – 06/2023

Kalyani, West Bengal, India | CGPA: 8.83

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900) — March 2025