SAI CHARAN TUMPURI

DevOps Engineer | Site Reliability Engineer

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SUMMARY

DevOps/SRE engineer with close to 4 years of automation and scalable cloud infrastructure on GCP and AWS, supporting 20+ teams at Comcast (Sky). Hands-on with Kubernetes (GKE/EKS), Terraform infrastructure as code at scale (300+ VMs), Linux, networking, and CI/CD across Jenkins, GitHub Actions, Cloud Build, and ArgoCD. Experienced in on-call incident response, observability, monitoring, and SLO-driven reliability. Built TerraKit, an internal IaC self-service platform that cut infra ticket resolution time by 60%. AWS Certified Solutions Architect – Associate and Google Cloud Professional Cloud Architect.

TECHNICAL SKILLS

Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS)

Containers & Orchestration: Kubernetes (GKE, EKS), Docker, Helm

Infrastructure as Code: Terraform, Ansible

CI/CD & GitOps: Jenkins, GitHub Actions, Cloud Build, Argo CD, GitHub Container Registry

Observability & Monitoring: Prometheus, Grafana, Cloud Monitoring, OpenTelemetry

Systems & Networking: Linux, TCP/IP, DNS, VPC, VPC-SC, Load Balancers

Languages: Python, Bash/Shell, Groovy, SQL

Data Platform: BigQuery, Dataflow (Apache Beam), Airflow/Composer

PROFESSIONAL EXPERIENCE

DevOps Engineer II | **Comcast** | Mar 2024 – Present

Chennai, India

- Designed and operated **Kubernetes**-native **CI/CD** on **GKE** with ephemeral pod agents (**Groovy** + **Python** DSL) across 40+ pipelines, automating E2E tests, artifact promotion, and vulnerability scans and cutting idle compute by 30% (**cost optimization**).
- Worked on building **TerraKit**, an internal **Terraform** abstraction with project-isolated remote state that lets engineers self-serve **GCP** infrastructure (**BigQuery**, **GKE**, **Dataflow**), reduced infra ticket resolution time by 60% (**toil reduction**) and unblocked 20+ data pipelines.
- Engineered a **GKE-native data platform**: a **FastAPI** RAG service (Deployments, StatefulSets, Secrets, PVCs, probes, resource limits, **PostgreSQL/pgvector**, **Prometheus**) plus **Kubernetes-deployed** data components acting as connectors between external data sources and **GCP** (Cloud Storage/BigQuery), with **Docker**-based CI/CD building multi-architecture images and versioned, environment-promoted releases to the container registry.
- Owned OS and security lifecycle: rebuilt GCP golden images with **Packer**, led migration of 300+ **Linux** VMs from CentOS 7 to CentOS 9 with zero SLA breaches, and decommissioned 40+ underutilized VMs to cut cost and CVE exposure.

DevOps Engineer I | **Comcast** | Jun 2023 – Mar 2024

Chennai, India

- Provisioned secure **GCP** infrastructure (VMs, IAM, **BigQuery**, GCS, **VPC networking**) using **Terraform** and **Ansible** with zero-touch **Cloud Build** CI/CD automation, cutting deployment time by 60%.
- Integrated **InfraCost** into **GitHub** PR checks for automated cost visibility on **infrastructure as code** changes, enabling proactive budget forecasting and **cost optimization**.
- Rebuilt 30+ legacy projects and decommissioned obsolete VMs, authored runbooks to support **incident response** and offshore knowledge transfer.
- Owned **incident response** for 300+ production **Linux** VMs on **on-call** rotation, monitoring CPU, memory, and 5xx alerts via **Cloud Monitoring**, **Prometheus**, **Grafana** (**observability**, logging), resolved P1–P4 incidents against **SLOs** and authored **postmortems** to drive toil reduction.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (Sep 2025) | Badge
- Google Cloud Professional Cloud Architect (Feb 2026) | Badge

EDUCATION

SASTRA University — B.Tech, Electronics & Communication Engineering

Jul 2019 – Jun 2023 | *GPA: 7.93*