

Anil Kumar Tangirala

SENIOR DEVOPS, INFRASTRUCTURE & SERVICE RELIABILITY ENGINEER

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PROFESSIONAL SUMMARY

Senior DevOps and Service Reliability Engineer with 8 years building and operating production PaaS and SaaS platforms. Deep expertise in AWS and OCI, with hands-on Azure and GCP experience. Owns platform architecture and production delivery across Kubernetes, infrastructure as code, CI/CD, observability and security. Leads cross-team releases and builds reusable automation and AI-assisted workflows that improve deployment efficiency, reduce operational toil and strengthen resilience.

CORE TECHNICAL SKILLS

Cloud and Security: AWS, Oracle Cloud (OCI), Azure, Google Cloud (GCP), AWS Lambda, HashiCorp Vault, WAF, IAM, RBAC

Infrastructure Automation: Terraform, Ansible, CloudFormation, AWS CDK

Containers and Middleware: Kubernetes (EKS, OKE, AKS, GKE), ECS, Docker, Podman, containerd, Helm, Istio, Apache Tomcat, Nginx

Delivery and Testing: GitLab CI/CD, GitHub Actions, Jenkins, Argo CD, GitOps, Azure DevOps, Shepherd, Git, Bitbucket, Maven, Nexus, JFrog Artifactory, Playwright, Selenium, JUnit, SonarQube

Observability and Operations: Prometheus, Grafana, Datadog, New Relic, Dynatrace, OpenTelemetry, Elasticsearch, Logstash, Kibana, OpenSearch, Fluentd, CloudWatch, Nagios, Streamlit, PagerDuty, Jira, Slack

Systems and Programming: Linux, Unix, VMware, Python, Go, Bash/Shell, PowerShell, Ruby, YAML

AI and ML: Custom Codex skills, MCP servers, AI code review agents, GenAI, LLMs, Jupyter

Data and Integration: Oracle Database, MySQL, Aurora, SQL Server, NoSQL, Kafka, REST APIs, webhooks, LiveKit, WebRTC

PROFESSIONAL EXPERIENCE

Oracle India Pvt Ltd | Hyderabad, India

Senior DevOps Engineer (SRE)

Feb 2025 to Present

- Develop Terraform, Python and Bash automation with OCI Resource Manager for provisioning and OKE lifecycle management across **ECP, ECP-RT, OSDMC and ICON**. Build and review infrastructure and GitLab CI/CD pipeline code for multi-region, multi-tenant platforms.
- Own OCI DevOps and Shepherd production deployments and upgrades, approving pipelines, Terraform changes, IAM boundaries and schema migrations. Use custom promotion gates to validate architecture integrations and detect configuration drift across staging, pre-production and production.
- Build reusable GitLab CI/CD templates and shared libraries with security scans, linting and compliance checks. Use Prometheus and OpenTelemetry health signals to validate deployments and trigger rollback.
- Build Playwright-based Release Qualification (RQ) automation for integrations and schema changes, coordinating defect resolution and completing releases within approved change windows.
- Built an AI code review agent for infrastructure and deployment changes, retaining human approval before production promotion.
- Build Streamlit uptime and cloud-cost dashboards and Grafana SLO/SLI monitoring. OpenSearch/Kibana threshold monitors and Slack webhooks reduced detection time by **45%**.
- Engineered an OpenSearch and Prometheus MCP correlation server with the SRE team. Custom Codex workflows cut triage time by **at least 75%** and initial response time by **50%**. Operate GenAI services and automate health reporting and paging with human-validated production actions.
- Standardized multi-region disaster recovery runbooks and failover tests, validating replication and recovery across OCI block storage and Oracle AI Autonomous Databases. Maintain operational SOPs and MOPs.
- Deploy LiveKit and troubleshoot WebRTC across **ECP and ECP-RT**, automating jitter and packet-loss analysis for real-time communications and **ECP** IoT connectivity over Starlink, AT&T and Vodafone.

- Lead on-call incident, change and problem management. Telemetry correlation and cross-stack RCA reduced MTTD by **50%** and MTTR by **30%**, improving incidents resolved within SLA from approximately **82% to 99%**.

Mobile Programming India Pvt Ltd | Bangalore, India

DevOps Engineer

May 2023 to Feb 2025

- Led migration from EC2 to EKS, standardizing Kubernetes deployments and workload management.
- Engineered GitLab CI/CD pipelines for AWS and OCI microservices, automating builds, vulnerability scans and deployments. Standardized OKE rollout checks and SOPs, improving deployment efficiency by **40%**.
- Automated healthcare IaaS, SaaS and PaaS provisioning, configuration, server updates and bulk patching with Terraform and Ansible, supporting consistent environments and application availability.
- Implemented monitoring, incident investigation and recovery workflows with standardized SOPs and release qualification logs, reducing incident response time by **30%**.
- Automated AWS Code Suite and Elastic Beanstalk delivery using Git, improving deployment efficiency by **30%**. CI/CD and Bash automation reduced manual intervention by **50%**.
- Automated Docker builds and Kubernetes rollouts with Jenkins CI/CD, cutting deployment time by **40%**.

Artisto Technologies Pvt Ltd | Vizag, India

DevOps Engineer (Cloud, Platform & Infrastructure)

Oct 2018 to May 2023

- Provisioned AWS EC2, S3 and RDS using Terraform modules, remote state, provider configuration and Ansible, reducing deployment time by **50%**. Supported Azure and GCP projects and led FinOps tagging and cost allocation.
- Implemented AWS Config and Security Hub to detect unauthorized changes and terminate non-compliant resources. Secured access through IAM, Vault, AWS Secrets Manager and Azure Key Vault.
- Built GitHub Actions pipelines, reducing deployment errors by **35%** and improving deployment efficiency by **60%**. Implemented Argo CD and Azure DevOps workflows.
- Modernized Jenkins builds with containerized Kubernetes agents, eliminating resource contention and cutting pipeline execution time by **40%**. Integrated Maven, SonarQube, Nexus and JFrog Artifactory for build quality and artifact delivery.
- Led an e-commerce application's migration from VMs to Google Kubernetes Engine (GKE).
- Operated Docker, bare-metal Kubernetes, AKS and Terraform-managed ECS workloads. Led monolith-to-microservices deployment changes with developers, improving scalability by **40%**.
- Configured ELB and Route 53 failover and latency-based routing for healthcare workloads, improving availability and fault tolerance. Automated Selenium and JUnit testing reduced deployment errors by **40%**.
- Implemented CloudWatch, ELK and Prometheus monitoring, reducing downtime by **30%**. Diagnosed application issues with Datadog and New Relic and investigated Kafka and SQL Server performance.
- Automated infrastructure configuration with CloudFormation, Python and PowerShell. Built Artrya healthcare ML platform infrastructure and Jupyter deployment workflows.

CERTIFICATIONS

AWS Certified Solutions Architect - Associate | Oracle Database@AWS Certified Architect Professional
 OCI 2025 Certified Observability Professional | OCI 2025 Certified Multicloud Architect Professional
 Oracle AI Autonomous Database Cloud 2025 Certified Professional | OCI 2025 Certified Generative AI Professional
 Oracle AI Vector Search Certified Professional | Global Product Security & AI Security Advanced (Oracle)
 GenAI for DevOps Practitioners (Coursera)

EDUCATION AND LANGUAGES

L.L.B | Dr. B. R. Ambedkar Law College, Osmania University; B.Com (G.S) | Kakatiya University
 Diploma in Electrical and Electronics Engineering | SBTET
 English (Advanced) | Telugu and Hindi (Native)