

Santosh Katageri

Senior DevOps / Platform Engineer

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SUMMARY

Senior DevOps/Platform Engineer with **9+ years** building and operating cloud platforms across OCI, AWS, and GCP. At Oracle, I own end to end deployment automation for **OCI Data Catalog** and **OCI AI Data Platform**, using Terraform modules and touchless workflows through an internal DevOps wrapper. Bootstrapped Data Catalog across **100+ regions** and decomposed AI Data Platform's monolithic bootstrap into **Segregated execution**. Develop and maintain **Terraform provider** for both services in public OCI terraform provider. Hands-on with Python automation, Kubernetes, Helm, monitoring, release validation, and production on-call. Build CLIs, self-heal automation, and skill-based workflows; publish at [learnwithsk.dev](#).

EXPERIENCE

Senior Platform Engineer

Oracle Corporation

Jan 2020 – Present ■ Bengaluru

Promoted Jan 2022; joined as Member of Technical Staff — builds and operates OCI Data Catalog and OCI AI Data Platform.

- Automated **OCI Data Catalog Service bootstrap** across **100+ regions & 60+ realms** using Terraform modules and touchless workflows through an internal DevOps wrapper, replacing a semi-manual process taking ~3 days per region; recent builds complete in **under 90 minutes** against a 120-minute SLA.
- Reduced a critical bootstrap stage from **50 to 20 minutes (60% reduction)** using burstable execution; built **shape-agnostic autoscaled compute** provisioning across VM architectures based on availability. Migrated bastion access from jump-hosts to **Zero Trust Bastion**.
- Built **ephemeral environments** for end-to-end bootstrap validation — the service stack created, destroyed, & re-created in isolation per rollout; isolation guidelines defined for non-deletable services.
- Built a **Python region validator** and release-validation suite gating both touchless bootstrap (per-region service-health checks) and QA → preprod → prod release promotion during upgrades.
- Decomposed OCI AI Data Platform's monolithic Terraform-based bootstrap into isolated execution flows for **20+ microservices**, achieving **90% onboarding automation** and realm-agnostic deployments across **60+ regions** via Helm and OCI DevOps. Scope included multi-VCN and cell-based networking, autoscaled compute, ATP, Kubernetes, KMS, certificates, DNS, IAM, and internal services.
- Developed and maintained **Go-based Terraform providers** for OCI Data Catalog and the OCI AI Data Platform in Oracle's public terraform-provider-oci repository — schema design, API/SDK compatibility, asynchronous work-request handling, resource locking, and direct customer support; **active contributor 2021–present**.
- Implemented **Prometheus/Grafana** service-health metrics and canary alarms to improve detection and triage of regional bootstrap failures and downstream dependency issues.
- Led the multi-team **Punchout UI rollout** for AI Data Platform, integrating the OCI console origin service, **Akamai CDN**, certificate services, and regionless DNS through fully automated OCI DevOps workflows.

KEY ACHIEVEMENTS

01

Region-build acceleration

Drove OCI Data Catalog's bootstrap from ~3 days/region to **120 minutes** across ~100 regions — recent builds under **90 minutes**, beating the SLA.

02

Platform decomposition

Took the AI Data Platform's monolithic bootstrap (**20+ microservices**) to isolated deployment units — **90% automated**, realm-agnostic across 60+ regions and 12+ realms.

03

Two published Terraform providers

Authored providers for Data Catalog and AI Data Platform in Oracle's public terraform-provider-oci; active contributor 2021–present.

04

36–50% cloud cost cuts

Automated AWS waste cleanup at Zynga (–36%) and EC2 scheduling automation at Mindtree (–50%).

SKILLS

Cloud: [OCI](#) [AWS](#) [GCP](#)

IaC: [Terraform](#) [Provider development](#) [Ansible\(OLAM\)](#)

CI/CD: [OCI DevOps](#) [Jenkins](#) [GitHub Actions](#)

[Release validation](#) [Canary & Release deployments](#)

Containers & OS: [Linux](#) [Docker](#) [Kubernetes](#) [Helm](#)

Languages: [Python](#) [Go](#) [Bash/Shell](#)

Networking & Edge: [DNS](#) [Multi-VCN](#) [Akamai](#)

[Cell-based network setup](#) [Cloudflare](#)

Observability: [Prometheus](#) [Grafana](#) [Alarm design](#)

[Incident response](#) [On-call](#)

Security: [IAM & policy automation](#) [Zero Trust Bastion](#)

[SSH certificates & Secrets management](#) [KMS](#)

Tooling: [Git](#) [Jira](#) [Confluence](#)

[AI-assisted engineering \(Codex skills, agentic workflow\)](#)

Personal Projects: [ArgoCD](#) [GitOps](#)

EDUCATION

M.Tech, Software Engineering

BITS Pilani

Jul 2022 – Jun 2024

Work Integrated Learning Programmes (WILP)

B.E., Telecommunication Engineering

Siddaganga Institute of Technology, Tumkur

2012 – 2016

- Built **Self-Heal**, an on-call assistant for service monitoring and scheduled Jira polling, and **Launchpad**, a local-first operations tool — **CLI** for tunnel connectivity and Kubernetes context switching, with a **JSON-based UI rendering** environment-level configs, region and realm details for day-to-day connectivity and operations.
- Partner with security and compliance on release upgrades, security patching, & **production on-call**; mentor engineers on deployment automation & troubleshooting, & lead weekly service-health reviews.

Cloud Engineer

Zynga Inc.

Nov 2018 – Jan 2020 ▪ Bengaluru

Promoted Jun 2019; joined as System Engineer.

- Automated cleanup of underutilized AWS resources, reducing cloud infrastructure spend by **36%**.
- Built **Python automation** for AWS & GCP infrastructure supporting high-traffic game teams, using Boto3 for AWS operations.
- Earned a **Spot Award** for resolving a major security incident. Implemented Lambda-based scans, migrated workloads from user access keys to **instance-profile auth**, and built **policy-as-code IAM automation** with Terraform & Jenkins to enforce deterministic least-privilege checks for policy creation requests.

DevOps Engineer

Mindtree Ltd.

Oct 2016 – Nov 2018 ▪ Bengaluru

Promoted Jun 2018; joined as Junior DevOps Engineer.

- Built **EC2 start/stop scheduling automation** that cut a client's cloud infrastructure costs by **50%**.
- Administered **VMware vSphere** and **Linux** environments — VM provisioning, patching, and capacity management; built a **migration POC** for vCenter VM to AWS EC2 — inventory discovery, Ansible-based provisioning, CI/CD handoff to QA.
- Automated **server-fleet patching** with Ansible for an air-travel client — patch cycles across fleets, replacing fully manual runs.
- Delivered automation (Shell, Python, Jenkins, Ansible) within the DevOps CoE — CI/CD and release pipelines for transportation, car-rental, and travel clients.

PROJECTS

LearnWithSK.dev

live · learnwithsk.dev

An engineering publication on building and understanding real systems — **articles**, **field notes**, and **build logs** from live projects. Static site on **Cloudflare Pages** with per-branch preview deployments and GitHub Actions CI/CD.

Ship Boring

in development · [github](https://github.com)

Building a **multi-tenant platform** managing a polyglot e-commerce estate with services built using Go, Python, Java, and Node.js, alongside MongoDB, Redis, and PostgreSQL on Kubernetes. Uses Terraform for infrastructure, Ansible for hardening and configuration management, ArgoCD GitOps for delivery, and **metric-gated canaries with automated rollback**. Public series: **Build, Break & Operate** — learnwithsk.dev.

DevPersonify

live · devpersonify.learnwithsk.dev

GitHub history → portfolio audit + job-ready documents, **deterministic scoring**, **no AI black box**, **no backend** — shipped end-to-end via AI-assisted development.

ACCOMPLISHMENTS

Outstanding Performer of the Year

Mindtree

Spot Award — Major Security Incident Resolution

Zynga

DevOps Hackathon Winner

TechGig

Promoted at every employer

Oracle, Zynga, Mindtree

FOCUS AREAS

IA

Infrastructure automation

Touchless provisioning, shape-agnostic orchestration, ephemeral validation environments — automation as the default, manual as the exception.

DA

Deployment architecture

Designing bootstrap and promotion systems: environment topology, isolation boundaries, gated rollouts, recovery paths.

DX

Developer platforms

The tooling layer — CLIs, validation gates, runbook tooling — that makes multi-region delivery self-service and safe.

WR

Writing in the open

Publishing build logs and working notes at learnwithsk.dev — complex systems, explained plainly.

REFERENCES

Available on request — recommendations visible on my [LinkedIn profile](#).