

SRINIVAS MANTINA

DEVOPS | CLOUD INFRASTRUCTURE & AUTOMATION | ORACLE CLOUD & AZURE

Targeting DevOps, Azure DevOps, Cloud Engineer, and Cloud Automation Engineer opportunities leveraging expertise in OCI, Azure, infrastructure automation, CI/CD, Terraform, Kubernetes, and Python-based cloud operations.

+91-7799004484
srinivas.mantina@outlook.com

Hyderabad, India

<https://www.linkedin.com/in/srinivas-mantina/>
<https://www.mygreatlearning.com/portfolio/srinivas-mantina>



Portfolio



PROFILE SUMMARY

- Cloud Infrastructure & Automation Professional with 12 years of experience spanning Cloud Operations, Infrastructure Automation, Software Development, Production Support, and DevOps-oriented engineering across enterprise environments.
- Currently contributing at Oracle by developing Python-based cloud automation, managing Terraform-driven infrastructure deployments, supporting GitLab CI/Jenkins pipelines, administering OKE environments, and implementing API-driven operational workflow across OCI infrastructure.
- Infrastructure-as-Code & CI/CD expertise using Terraform, GitLab CI, Jenkins, Docker, and Git, delivering reviewed and approval-gated infrastructure changes across networking, security, load balancing, and container infrastructure, alongside automated script packaging and Object Storage-based deployments.
- Strong data engineering and operational reporting capability, including a 1.2M+ records/day security-data pipeline integrating APIs, Object Storage, and Autonomous Data Warehouse (ADW), with batched MERGE processing, checkpoint-based recovery, retries, archival, and Oracle Analytics Cloud (OAC) reporting validated through SQL.
- Production reliability & troubleshooting leader experienced in OKE cluster deployment/upgrades, private Kubernetes access through OCI Bastion, IAM troubleshooting, production VM outages, API-driven service operations, and Jenkins automation; combines cloud engineering with Perl/Shell enterprise application support for Ericsson, making him effective across infrastructure, application, and production operations.
- Hands-on exposure across Oracle Cloud Infrastructure (OCI), Microsoft Azure, and AWS, with cloud automation and infrastructure engineering experience complemented by Azure-focused project exposure and formal cloud training.



WORK EXPERIENCE

Site Reliability Engineer Lead

ORACLE | Jul'19-Present

Hyderabad, India

- Developing Python-based cloud-operations automation using the OCI Python SDK and REST APIs for resource costs, audit logs, announcements, VM inventory, & security-data collection.
- Engineering Terraform-based Infrastructure as Code for cloud networking, security, load balancing, container infrastructure, and project-specific resource provisioning.
- Executing infrastructure deployments through GitLab CI, incorporating Terraform plan reviews and approval-gated deployment workflow for controlled infrastructure changes.
- Building Jenkins pipelines & REST API integrations, configuring build agents implementing API-triggered workflow for service restarts and environment deprovisioning.
- Deploying and upgrading Oracle Kubernetes Engine (OKE) clusters, while configuring private API connectivity through OCI Bastion and troubleshooting CLI authentication, Bastion sessions, and IAM permissions.
- Developing ADW-backed Oracle Analytics Cloud (OAC) reporting solutions, validating reporting outputs through SQL, and creating OAC MCP context files to support AI-assisted queries.

Achievements:

- Automated the recurring security-data collection process, replacing a manual workflow involving approximately 40 minutes of export-generation time and local administering of 750–800 MB datasets.
- Implemented six-hourly data exports and daily ingestion scheduling, separating collection from ingestion to reduce processing contention and improve pipeline continuity.
- Established 25,000-record batch MERGE processing with retry capabilities, enabling failed batches to be reprocessed without repeating the complete ingestion cycle.
- Implemented export recovery mechanisms using object modification timestamps and saved export-success checkpoints, alongside API retries and a 15-day archive retention policy.



CORE COMPETENCIES

Cloud Infrastructure Automation

DevOps & CI/CD Engineering

Infrastructure as Code

Cloud Operations Automation

Terraform Infrastructure Provisioning

Kubernetes & OKE Administration

API-Driven Cloud Operations

Cloud Resource & Cost Management

Cloud Data Pipeline Engineering

Production Support & Troubleshooting

Infrastructure Deployment Governance

Operational Reporting & Analytics



TECHNICAL SKILLS

- Cloud: Oracle Cloud Infrastructure (OCI), Microsoft Azure, AWS (Exposure)
- Infrastructure & Containers: Terraform, Kubernetes, Oracle Kubernetes Engine (OKE), Docker, OCI Bastion
- Programming & Scripting: Python, Perl, Shell Scripting
- CI/CD & DevOps Tools: Jenkins, GitLab CI, Git
- OCI Technologies: OCI Python SDK, Object Storage, IAM, Autonomous Data Warehouse (ADW), Oracle Analytics Cloud (OAC), REST APIs
- Databases & Querying: SQL



CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Foundations Associate | Oracle | Valid through Mar'28
- Certified Kubernetes Administrator (CKA) Planned / In Progress



EDUCATION

PG Diploma in Cloud Computing
Great Lakes Institute of Management | Online Program
2022

B.Tech. / B.E. in Electronics and Communication Engineering (ECE)
GMR Institute of Technology, Srikakulam
2014

- **Automated cloud resource and operational data collection** covering resource costs, audit logs, announcements, and VM inventory, replacing repetitive manual collection activities with Python-based workflow.

IT Analyst

Tata Consultancy Services | Oct'14-Jul'19

Hyderabad, India

- **Developed and maintained enterprise application features using Perl and Shell for the Ericsson client**, covering implementation, testing, deployment, and production support activities.
- **Developed Python scripts to automate recurring application-support and operational activities, reducing dependency** on repetitive manual execution.
- Supported **Jenkins-based CI/CD pipelines** and **coordinated application releases** with development and support teams across delivery activities.
- **Gained project exposure to Microsoft Azure-based cloud environments** as part of enterprise assignments, complementing application support and automation responsibilities.
- Investigated **production application issues and implemented maintenance changes**, collaborating with development and support teams through issue resolution.
- **Contributed to enterprise automation & cloud-oriented initiatives** while supporting application delivery, deployment, and production operations.



PROJECTS

IP Insights / IP Management

- Developed a Python-based automation solution to connect to multiple OCI tenancies and collect IP-related information across multiple subnets.
- Automated collection of **private and public IP utilization data**, including used and available IP capacity at the subnet level.
- Provided visibility into subnet utilization percentages, helping teams identify heavily utilized subnets and underutilized capacity before provisioning new VMs or other cloud resources.
- Improved IP resource distribution by enabling teams to make provisioning decisions based on current subnet utilization rather than repeatedly selecting the same heavily utilized subnet.

Security Data Processing and Recovery

- **Optimized processing efficiency** by decoupling long-running exports from ingestion, scheduling exports at six-hour intervals and initiating daily ingestion two hours after the final export to **minimize resource contention**.
- Accelerated incremental data processing by **implementing ID-based MERGE operations with executemany in 25,000-record batches**, enabling targeted retries of failed batches without repeating the complete ingestion cycle.
- **Strengthened export recovery and resilience** by leveraging object modification timestamps and persisted export-success checkpoints to resume interrupted exports from the appropriate point.
- Improved API reliability and data retention through retry mechanisms for failed API calls and implementation of a 15-day archive retention policy.

Cloud Resource Collection and Operational Reporting

- Automated cloud-resource data collection by **developing Python collectors** using the OCI SDK for resource costs, audit logs, cloud announcements, and VM inventory, notably reducing repetitive manual activities.
- **Enhanced security reporting capabilities** by developing OAC reports for security findings, including monthly trend analysis and plugin-family views.
- Improved **reporting accuracy by validating OAC security findings** against source data using SQL-based reconciliation and verification.
- Standardized OAC reporting context by **authoring OAC MCP context files and supporting stakeholder reviews** and refinement of reporting requirements and changes.

Infrastructure and Script Delivery

- **Implemented and delivered infrastructure enhancements** using Terraform across networking, security, load balancing, and container infrastructure through controlled plan reviews and approval-gated deployments.
- Streamlined script delivery and **promotion workflow by supporting feature-to-development pipelines** that package scripts and publish versioned archives to Object Storage.
- **Enabled controlled production script updates** through dev-to-main promotion workflow that deploy the latest tar.gz release to server-side script repositories.

API-Driven Cloud Operations

- **Automated CI/CD and operational workflow** by developing Jenkins pipelines with REST API integrations and configuring build agents to support automation jobs.
- Implemented API-driven operational workflow for **service restarts and environment deprovisioning**, reducing manual intervention in recurring cloud operations.
- **Diagnosed and resolved workflow execution issues** across API payloads, Groovy scripts, callbacks, and pipeline integrations to improve automation reliability.

Kubernetes Deployment and Private Access

- Deployed and **upgraded OKE clusters** while establishing private API connectivity through OCI Bastion to support secure Kubernetes administration.
- **Resolved Kubernetes access** and authentication challenges involving CLI authentication, Bastion sessions, and IAM permissions, restoring secure cluster connectivity and operational access.

Enterprise Application Delivery — Ericsson

- **Implemented and tested application enhancements** using Perl and Shell while developing Python automation to streamline recurring production-support activities.
- Supported **Jenkins-based application delivery and release coordination**, contributing to controlled and reliable deployment execution.
- **Strengthened production operations** by performing application maintenance, troubleshooting, and issue resolution across enterprise environments.