Sannihith Reddy Komireddy

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PROFESSIONAL SUMMARY

Site Reliability Engineer with 4+ years operating production cloud infrastructure across Azure, AWS, GCP, and OCI. Built end-to-end observability stacks (metrics, logs, traces) using Azure Monitor, CloudWatch, and Datadog. Led a petabyte-scale banking migration with zero data loss and minimal downtime, designing for graceful degradation and fault tolerance. Automates toil reduction through Python, Terraform, and CI/CD pipelines. Operates Kubernetes clusters (AKS, EKS, OpenShift) at scale with deployment safety controls. Microsoft Certified Azure Administrator and DevOps Engineer Expert.

CORE COMPETENCIES

Site Reliability Engineering | Kubernetes & Container Orchestration | Observability (Metrics, Logs, Traces) | Incident Management & On-Call | SLIs/SLOs & Alerting | Infrastructure Automation (Python, Terraform) | CI/CD & Deployment Safety | Multi-Cloud Infrastructure (Azure, AWS, GCP)

WORK EXPERIENCE

Matilda Cloud

October 2023 - Present

Cloud Engineer / Site Reliability

- **Built observability and monitoring stack** using Azure Monitor, AWS CloudWatch, and centralized logging to provide high-signal alerting and proactive incident detection across multi-cloud production systems.
- **Reduced operational toil** by designing Python automation for cloud resource discovery, inventory collection, and infrastructure analysis across Azure, AWS, GCP, and OCI -- eliminating manual assessment workflows.
- **Operated and improved production platform services** with full ownership: provisioning, monitoring, alerting, failure detection, and automated recovery for cloud-native workloads.
- **Implemented deployment safety** through CI/CD pipelines (Azure DevOps, Git, YAML) with automated build, test, and release processes, improving system reliability and deployment confidence.
- **Deployed containerized applications on Kubernetes** (AKS, Docker) integrated with CI/CD pipelines for scalable, portable, and automated cloud-native production workloads.
- **Designed resilient systems** with secure authentication (RBAC, IAM), encryption, and fault-tolerant architectures to meet enterprise reliability and compliance standards.
- **Integrated AI-driven automation** using LLMs and prompt engineering to build intelligent recommendation engines for infrastructure right-sizing and cost optimization.

Banregio (Matilda Cloud engagement)

October 2023 - June 2024

Cloud Engineer - Production Data Migration

- **Led petabyte-scale production migration** from Azure Synapse to AWS Redshift for a major banking client, ensuring high availability, data integrity, and minimal downtime under strict SLA requirements.
- **Designed failure-resilient data architecture** with automated validation and reconciliation frameworks to prevent data loss and ensure consistency between source and target systems.
- **Administered Prefect orchestration platform** (enterprise-grade workflow engine): DAG scheduling, worker provisioning, task dependency management, automated retries, and RBAC-based access control.
- **Built monitoring and alerting** for migration progress tracking, performance metrics, failure detection, and proactive incident resolution -- zero data inconsistencies in production.
- **Optimized system performance** by configuring Redshift distribution keys, sort keys, compression encoding, and workload management settings to meet reliability and latency targets.
- **Automated infrastructure provisioning** using Terraform and IaC practices for Redshift clusters, schema creation, and deployment pipelines with CI/CD (Azure DevOps, Git).

CBIZSOFT India Private Limited

January 2019 - July 2021

DevOps Engineer

- **Deployed and managed Kubernetes clusters** (AKS, EKS, OpenShift) with Docker containers integrated into CI/CD pipelines for production workload reliability.
- **Built CI/CD pipelines** using Azure DevOps and Jenkins to automate build, test, and deployment workflows with deployment safety controls.
- **Implemented observability** using Azure Monitor, Log Analytics, CloudWatch, and Datadog for performance tracking, alerting, and proactive incident resolution.
- **Automated infrastructure provisioning** with Terraform, ARM templates, and Ansible for consistent, repeatable deployments across Azure and AWS.
- **Applied reliability best practices** including RBAC, NSGs, encryption, auto-scaling, and resource right-sizing to maintain high availability.
- **Wrote automation scripts** in Python, PowerShell, and Azure CLI to reduce manual operational toil and streamline infrastructure tasks.

PROJECTS

Multi-Cloud Discovery & Assessment Platform

Built automated resource inventory, cost analysis, and infrastructure assessment platform covering Azure, AWS, GCP, and OCI. Reduced client assessment timelines from weeks to hours through Python automation and REST API integrations.

Python, MongoDB, Elasticsearch, REST APIs, Multi-Cloud

AI-Powered Cloud Recommendation Engine

Integrated LLMs into cloud assessment workflows to automate service mapping, right-sizing recommendations, and migration planning. Reduced manual analysis effort and improved decision accuracy for infrastructure optimization.

Python, LLM APIs, Prompt Engineering, FastAPI

Petabyte-Scale Banking Data Migration

Designed and executed end-to-end migration from Azure Synapse to AWS Redshift for Banregio. Zero data loss, zero downtime through automated validation frameworks and progressive rollout strategy.

Prefect, Azure Data Factory, AWS Redshift, S3, Terraform, Python

EDUCATION

Master of Science, Computer Science - University of Texas at Arlington — Aug 2021 - May 2023

Bachelor of Technology, Computer Science - Anurag Group of Institutions — Jun 2016 - Jun 2020

CERTIFICATIONS

Microsoft - Azure Administrator Associate — Jan 2024

Microsoft - DevOps Engineer Expert — Feb 2024

AWS - Certified AI Practitioner — Jan 2025

SKILLS

Cloud: Azure, AWS, GCP, OCI **Containers:** Kubernetes (AKS, EKS, OpenShift), Docker **IaC:** Terraform, ARM Templates

CI/CD: Azure DevOps, Jenkins, GitHub Actions **Observability:** Azure Monitor, CloudWatch, Datadog, Log Analytics

Languages: Python, Bash, PowerShell **Databases:** PostgreSQL, MongoDB, Elasticsearch, Redis **Orchestration:** Prefect, Azure Data Factory