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Site Reliability Engineer

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SUMMARY

Proficient in developing fully automated IaC ecosystems using Terraform, Azure DevOps pipelines, and policy-as-code frameworks to enforce compliance, governance, and drift-free infrastructure. Experienced in architecting scalable workloads using AKS, EKS, GKE, and containerizing applications with Docker, CI/CD validation gates, and advanced metadata governance standards. Adept in implementing RAG pipelines, VectorDB indexing, schema validation scripts (Python/Bash), and intelligent automation for diagnostics, observability, alert correlation, and runtime decision-making. Skilled in multi-cloud services spanning compute, storage, networking, databases, and serverless technologies, with hands-on experience in SageMaker and Vertex AI for ML-driven automation. Demonstrates strong commitment to operational excellence, resiliency, and reliability engineering—driving major improvements in system performance, security posture, and automation maturity. Highly collaborative, mentoring teams in modern DevOps, AI-SRE practices, and data-governed workflows while delivering scalable, secure, and cost-efficient cloud solutions. Dynamic and innovative Cloud & SRE Engineer with deep expertise in designing, automating, and optimizing large-scale cloud infrastructure across Azure, AWS, and GCP. Highly skilled in building self-healing, intelligence-driven cloud operations using AI agent frameworks such as ADK, Autogen, A2A pipelines, AgenticAI, MCP, and workflow engines like LangGraph.

Professional Experience

Senior Site Reliability Engineer, SES Satellite

Dec 2024 – Present

1. Azure Cloud Infrastructure & Reliability Engineering
- Designed, deployed, and maintained resilient, high-availability Azure environments across Compute, Storage, Networking, and Identity.
 - Managed core Azure services including Virtual Machines, AKS, Key Vault, Storage Accounts, Load Balancers, App Services, Azure Monitor, and Azure Policy.
 - Implemented Terraform-driven automation for provisioning, configuration consistency, and compliance enforcement.
 - Strengthened cloud governance through policy-as-code, drift detection, and automated remediation workflows.
2. AI-Driven Automation & Intelligent Operations
- Developed autonomous agent-based workflows using ADK, Autogen, and Model Context Protocol (MCP) to streamline SRE operations and reduce manual workload.
 - Built Agent-to-Agent (A2A) orchestration pipelines enabling automated incident detection, impact analysis, and actionable remediation.
 - Integrated VectorDB and RAG pipelines to enable intelligent diagnostics, contextual problem-solving, and knowledge-aware automation.
 - Utilized LangGraph to construct dynamic AI workflows for observability automation, alert correlation, predictive scaling, and operational decision-making.
3. Infrastructure Automation & DevOps Enablement
- Automated infrastructure provisioning, drift detection, and compliance workflows using Terraform and Azure DevOps CI/CD pipelines.
 - Implemented Azure Policy, Terraform guardrails, and pipeline-level quality checks to enforce enterprise governance.
 - Built reusable infrastructure modules to standardize resource creation and reduce operational overhead.
4. Multi-Cloud Infrastructure Engineering (AWS & GCP)
- Designed and managed highly available, fault-tolerant cloud architectures across AWS and GCP, supporting distributed systems with strict SLIs/SLOs.
 - Service experience includes:
 - AWS: EC2, S3, RDS, Lambda, EKS, ECS, CloudWatch, IAM
 - GCP: Compute Engine, Cloud SQL, Cloud Storage, Cloud Functions, Cloud Run, GKE & GKE Autopilot
 - Integrated ML workflows using SageMaker (AWS) and Vertex AI (GCP) to support intelligent automation.
 - Implemented DR strategies, backup/restore automation, multi-region failover, and resilience best practices at scale.
5. Collaboration, Innovation & AI-Enabled DevOps
- Partnered with platform, security, and data teams to embed generative AI assistant workflows into change management, release processes, and CloudOps activities.
 - Led internal initiatives to accelerate DevOps maturity through self-healing infrastructure models and intelligent automation pipelines.
6. Containerization, Validation, and Governance Engineering
- Developed and optimized Dockerfiles incorporating embedded data-validation steps for consistent, high-quality builds.
 - Built Python/Bash validation scripts for schema checks, data consistency, and data-quality verification.
 - Implemented standardized metadata LABEL strategies (dataset versions, lineage tags, schema identifiers) for improved traceability.
 - Enforced CI/CD validation gates to block malformed datasets or noncompliant images.
 - Defined organization-wide data governance and container standards covering labeling, validation logic, and compliance expectations.

Tech Skills:

- AWS (Amazon Web Service)
- Microsoft Azure
- Google Cloud Platform
- Docker
- CI/CD tools: Jenkins, AWS DevOps, Azure DevOps, Helm, ArgoCD, GIT, Jenkins
- Networking (CCNA) & Linux (RHEL, Ubuntu etc)
- Scripting : Bash, Python (Boto3)
- Monitoring : Pingdom, Sensu(Grafana, Uchiwa dashboards), Newrelic, & DataDog
- Security : Nessus, TM DeepSecurity
- Automation : Ansible, Terraform
- Kubernetes: AKS, EKS, GKE, Kubeadm, minikube, k3s,
- Jenkins
- AI services like ADK, AutoGen, MCP servers, A2A, Antigravity, Kagent, AgenticAI
- Google Ai Studios & Azure AI Foundry, SageMaker
- Yaml & JSON

Certification:

AWS solution Architect

Google Associate Certified Engineer

Microsoft Azure fundamentals AZ-900

Aviatrix - Multi Cloud Networking Associates

JIRA Fundamentals

Red Hat Certified System Administrator (RHCSA)

Kubernetes Administrator (CKA)

Helm

DataDog

Azure Kubernetes Service

Amazon Elastic Kubernetes Service

Professional Qualifications

BSc. Computer Science - CGPA=6.8

Bharathiar university/Hindustan college of arts and science (2017)

My initiatives

- Integrated vLLM with kubeflow - KServe
- AiRE - Automation
- Modernization application using AgenticAI
- Structuring a Terraform Project
- Generative AI - GCP
- GKE Autopilot- Microservices (Golang)
- Managing Kubernetes Like a Pro with Claude Desktop + MCP Protocol
- MiniKube and Ingress controller
- Google AI's

Previous Work Experience

Senior Cloud Engineer

HID Global (ASSA Abloy) (OCT 2023 - DEC 2024)

Domain: Cloud & Infra service

Environment: AWS, Azure

- Administered core services across both clouds including EC2, S3, RDS, EKS, ECS, and Compute Engine, Cloud Storage, Cloud SQL, GKE, Cloud Run, as well as SageMaker and Vertex AI for ML workloads.
- Automated infrastructure provisioning using Terraform, CloudFormation, Deployment Manager, Helm, and Kustomize, ensuring consistent and repeatable deployments across environments.
- Maintained strong security and compliance through IAM, VPC configurations, encryption (AWS KMS / GCP CMEK), firewall rules, private access, and centralized audit logging.
- Implemented cloud best practices, DR strategies, and backup policies, ensuring business continuity and data integrity.
- Enhanced performance and cost efficiency using CloudWatch, Cost Explorer, Google Cloud Monitoring/Logging, Grafana, and Prometheus.
- Deployed containerized microservices via ECS/Fargate and Cloud Run, enabling fully managed, auto-scaling serverless architectures integrated with message queues and data services.
- Built optimized Docker images (multi-stage, distroless) and managed Kubernetes workloads on EKS and GKE, improving deployment consistency and resilience.
- Managed end-to-end CI/CD pipelines using GitLab CI, Jenkins, and AWS CodePipeline, improving release frequency and reliability.
- Automated configuration and deployment workflows using Ansible, Terraform, Helm, ensuring reliable multi-environment rollouts.
- Created and maintained Helm charts and Kustomize configs for Kubernetes apps, supporting GitOps delivery pipelines with ArgoCD and GitLab CI.
- Designed scalable Kubernetes deployments on GKE Autopilot and EKS with rolling, blue-green, and canary strategies for zero-downtime releases.

Senior Cloud Engineer

LTIMindtree (AUG 2021 - OCT 2023)

Domain: Cloud & Infra service

Environment: AWS, Azure

- Managed and optimized large-scale AWS and Azure infrastructures, handling incidents, alerts, deployments, security audits, patching, backups, and monitoring.
- Built and maintained CI/CD pipelines using Jenkins, Azure DevOps, CodeBuild, and CodePipeline, enabling automated builds, tests, and zero-downtime deployments.
- Implemented canary deployments, blue/green releases, and automated scaling for Spring Boot applications on AWS EC2, ECS, and Fargate.
- Automated tasks using Terraform, Ansible, Bash, and Python (Boto3) for provisioning, patching, and configuration management across multi-cloud environments.
- Deployed and managed serverless workloads using AWS Lambda and maintained secure environments via IAM, RBAC, AWS Inspector, Nessus, and Systems Manager.
- Enhanced system reliability through monitoring solutions such as CloudWatch, DataDog, New Relic, Sensu, and Pingdom, ensuring high availability and performance.
- Managed storage, backups, and lifecycle policies using S3, while supporting data platform teams with Web/DWH provisioning and access controls.

Senior Client Partner

Access Healthcare (2018 - 2021)

Domain: Healthcare | Environment: Administrator/User Management
Roles:

- Administrator in On-prem VMware
- Worked with Active Directory
- Hardware Implementation
- Network Support
- Networking (Routes, Switch, HUB etc)