CHETAN SIRIGUPPA

SITE RELIABILITY ENGINEER (SRE) | DEVOPS ENGINEER

2x AWS Certified (SAP-C02, DOP-C02) | 2x GitHub Certified (GHAS & GHA) | Azure Certified (AZ-900)

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PROFESSIONAL SUMMARY

Site Reliability Engineer and DevOps Engineer with 2+ years of experience building, automating, and operating highly available cloud platforms on AWS and Azure. Proven expertise in Kubernetes, Terraform, CI/CD automation, and observability, supporting enterprise-scale production workloads. Improved deployment reliability by 40% and reduced MTTR by 35% through monitoring, automation, and incident response improvements. Strong focus on platform reliability, infrastructure automation, and secure cloud operations.

EDUCATION AND CERTIFICATION

B.Tech in Electronics and Communication Engineering | Rajeev Gandhi Memorial College of Engineering and Technology   (2020-2023)

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure, High Availability, Multi-AZ Architectures, Cloud Migration
- **CI/CD & Automation:** GitHub Actions, Jenkins, Python Scripting, Release Automation
- **Containers & Orchestration:** Docker, Kubernetes (EKS, AKS), Helm, ECS, Containerized Microservices Architechures
- **Service Mesh & Tracing:** Istio, AWS App Mesh, Jaeger, OpenTelemetry
- **Infrastructure as Code:** Terraform, AWS CloudFormation, Azure ARM Templates
- **Configuration & Scripting:** Ansible, Java, Python, Bash
- **Observability & SRE:** Datadog, Prometheus, Grafana, Splunk, CloudWatch, Alerting, Monitoring Strategies, SLIs, SLOs, Incident Management, MTTR Reduction, Root Cause Analysis, Infrastructure Automation, Platform Reliability Engineering, PagerDuty, QuickSight
- **Databases:** MySQL, MongoDB, DB latency monitoring, index optimization, Slow-query analysis
- **Security:** GitHub Advanced Security, CodeQL, Dependabot, SonarCloud, Snyk, OWASP ZAP, Trivy, Terrascan, Secure Git Workflows, least-privilege IAM
- **Other:** Linux Administration, System Troubleshooting, Networking(TCP/IP, DNS, HTTP, TLS), Log Analysis

WORK EXPERIENCE

DevOps & Site Reliability Engineer | Cognizant Technology Solutions

Client: Liberty Mutual Insurance   Dec 2023 - Present

- Designed and implemented GitHub Actions CI/CD pipelines enabling 50+ automated deployments per month, improving deployment efficiency and consistency
- Reduced deployment failures by ~40% via reusable workflows, validation checks, required status gates, and automated rollbacks.
- Deployed and supported containerized workloads on Kubernetes (EKS and AKS) with rolling updates, environment isolation, and high availability.
- Worked under ISO-27001, SOC 2, PCI-DSS and secure SDLC practices including change management, audit controls, privileged access management (PAM), encryption standards, and vulnerability remediation SLAs.
- Provisioned and managed 100+ cloud resources—including Kubernetes clusters, compute, IAM, networking, storage, Lambda, API Gateway, DynamoDB, and SQS/SNS—using Terraform, and engineered

reusable Terraform modules that standardized infrastructure provisioning and reduced delivery time across multiple teams
- Led AWS to Azure migrations by recreating infrastructure, adapting pipelines, and executing near-zero-downtime cutovers.
- Implemented centralized observability (Datadog, Prometheus, Grafana, Splunk, CloudWatch) and built dashboards for API latency, throttling, error rates, SQS backlog age, and DLQ depth.
- Improved MTTR by ~35% through actionable alerting, SLI/SLO instrumentation, and proactive incident response and RCA.
- Enforced DevSecOps: branch protection, least-privilege IAM (Lambda, API Gateway, SQS, SNS), and CI security scanning (CodeQL, Snyk, Trivy, Terrascan, SonarCloud, Dependabot).
- Supported Java-based microservices integrated into Kubernetes and CI/CD; collaborated with dev and QA via ticket-driven workflows to hit SLA-based releases and resolve incidents in production.
- Drove platform reliability initiatives, defined SRE standards, and mentored teams across engineering, acting as a reliability owner for 10+ production services.
- Part of the production on-call rotation (weekly/bi-weekly) handling Sev-1/Sev-2 incidents, triaging alerts from PagerDuty/Datadog, and driving rapid recovery and RCA.

KEY ENGINEERING PROJECTS

Enterprise Kubernetes Platform (EKS/AKS) with Service Mesh & Observability
- Engineered scalable Kubernetes platforms on AWS EKS & Azure AKS using Terraform, Helm, and GitOps workflows.
- Implemented Istio/App Mesh, OpenTelemetry, and Jaeger for traffic control, zero-trust networking, and distributed tracing and built observability

   GitHub Actions CI/CD Modernization with DevSecOps Automation
- Designed reusable GitHub Actions pipelines enabling automated build, test, scan, and deployment across microservices.
- Integrated security scanning (CodeQL, Snyk, SonarCloud, Trivy, Terrascan) with approval gates and rollback workflows, reducing deployment failures by ~40%.
- Standardized CI/CD for Java/Python/Docker workloads, improving release reliability and developer productivity.

3. Multi-Cloud Infra & Reliability Engineering (AWS → Azure Migration)
- Led AWS → Azure migration by recreating infra with Terraform modules (VPC, IAM, Kubernetes, compute, storage).
- Implemented SRE practices including SLIs/SLOs, actionable alerting, MTTR dashboards, and automated incident workflows.
- Built monitoring dashboards (latency, error rate, SQS/SNS queues, DLQ depth), improving MTTR by ~35%.

CERTIFICATIONS

- AWS Certified DevOps Engineer – Professional (Valid Until: June 2028)
- AWS Certified Solutions Architect – Professional (Valid Until: July 2028)
- GitHub Actions (Valid Until: July 2027)
- GitHub Advanced Security (Valid Until: July 2027)
- Microsoft Certified Azure Fundamentals (AZ-900) (Earned: May 2025)
- Certified Kubernetes Administrator (CKA) – In Progress