

AKASH SAINI

SITE RELIABILITY ENGINEER & DEVOPS EXPERT

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PROFESSIONAL SUMMARY

Highly skilled and metrics-driven Site Reliability Engineer and DevOps Expert with over 7 years of progressive experience architecture-designing, scaling, and automating complex cloud infrastructure and enterprise-grade networks. Proven track record at Microsoft and Amazon managing large-scale infrastructure deployments, driving high-speed regional expansions across multiple Availability Zones, and enforcing robust SLO/SLA monitoring systems. Expert in Software-Defined Networking (SDN), zero-touch CI/CD automation, and modernizing legacy infrastructures into highly resilient Kubernetes platforms.

TECHNICAL SKILLS

2xAws, 2xLinux, Azure, Jenkins, Ansible, Terraform, Kubernetes, Docker, Python

WORK EXPERIENCE

Microsoft — Site Reliability Engineer - II

Aug 2024 – Present

- **SDN Infrastructure Engineering:** Core member of the Software-Defined Networking (SDN) team, orchestrating and managing scalable, resilient virtual networks fabric powering global infrastructure.
- **High-Speed Regional Expansion:** Engineered automated pipelines to rapidly expand Microsoft cloud infrastructure into multiple global regions and Availability Zones (AZs) while strictly maintaining zero downtime, high availability, and massive scalability.
- **Deployment Optimization:** Developed advanced end-to-end automation strategies using IaC tools to fast-track cluster and data-center deployments, drastically shortening provisioning timeframes and eliminating manual errors.
- **Observability & Telemetry:** Implemented robust end-to-end telemetry systems to systematically track and enforce Service Level Objectives (SLOs) and Service Level Agreements (SLAs), optimizing system error budgets and minimizing MTTR.

Amazon — System Development Engineer

Aug 2022 – Aug 2024

- **Payments Security Hardening:** Engineered and managed high-security frameworks across payment-processing infrastructure spanning all global AWS regions.
- **Kubernetes Modernization:** Championed the legacy migration from a monolithic approach on on-premise physical servers directly into cloud-native microservices hosted on Kubernetes.
- **Zero-Touch Deployments:** Structured robust Helm Chart frameworks and templates allowing smooth, single-click deployments completely decoupled from manual human intervention.
- **CI/CD Pipelines:** Programmed multi-component delivery architectures using Jenkins to flawlessly maintain high-frequency scheduled weekly releases and crucial out-of-cycle hotfixes.

GlobalLogic — Senior Software Development Engineer

Oct 2019 – Jul 2022

- **Consultancy at Ericsson R&D:** Acted as a core engineering advisor resolving performance and architectural issues in telecommunication infrastructure.
- **Geo-Redundant Engineering:** Architected active-active high-availability setups across geographically separated Kubernetes clusters to avoid single points of failure.
- **OS Platform & Security Lifecycle:** Executed complex migrations, RHEL security patches, Errata updates, and firewall policy transformations from RHEL 6/7 over to RHEL 8 environments.

- **Network & Storage Optimization:** Configured advanced high-throughput Linux network teaming/bonding and dynamically resized production logical volumes on the fly.

KEY PROJECTS

Remote Access System (RAS) Secure Development

Amazon

- Designed, hardened, and maintained dedicated, highly isolated operating systems running separate from general corporate IT networks to securely manage critical payment zones.

Automated Failover Mitigation Strategy

Amazon / Ericsson

- Created a custom Python microservice that proactively detects server faults, seamlessly routes active sessions to secondary cold/warm standbys, and triggers real-time SOS alerts containing forensic diagnostics.

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900)

Credential ID: 7BB20FF70564B0E

CKA: Certified Kubernetes Administrator

AWS Certified SysOps Administrator

Validation No: 3P4VNEF17JB4QY5B

AWS Certified Cloud Practitioner

Validation No: 4DCTQJ2DEEQE1CC5

Red Hat Certified Engineer (RHCE)

Validation No: 160-065-173

Red Hat Certified System Administrator (RHCSA)

Validation No: 160-065-173

EDUCATION

Bachelor of Technology (B.Tech)

CGC College of Engineering, Mohali

06/2015 – 06/2019

High School (12th Grade)

Rotary Public School

04/2014 – 05/2015

Secondary School (10th Grade)

Rotary Public School

04/2013 – 04/2014

AWARDS & HONORS

- **Team Excellence Award** — Recognising exceptional collaborative design frameworks during complex data center modernizations.
- **Individual Excellence Award / Spot Award** — For outstanding fast-tracked execution during infrastructure outages.