

AVINASH SINGH

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Summary

Senior Site Reliability Engineer with 7 years of experience building and operating cloud and on-premises infrastructure. Hands-on with Kubernetes, AWS, Linux, networking, CI/CD, observability, automation, and production incident response. Own and manage platform infrastructure supporting services that handle an average of 70 million requests daily.

Experience

Fabletics

Dec 2024 - Present

Senior Software Engineer

- Own and operate production Kubernetes clusters supporting **10 business units** across AWS EKS and on-premises environments.
- Define and monitor SLIs, SLOs, and error budgets for services processing **70 million daily requests** with a **99.95% availability SLO**.
- Lead cross-functional on-call incident response for production services, coordinating triage, service restoration, RCA, postmortems, and corrective actions.
- Perform Kubernetes capacity planning using utilization and SLO trends to guide resource sizing, scaling, and cost optimization.
- Designed and deployed multi-account AWS networking across **30+ accounts and 4 regions** to meet security and connectivity requirements using Terraform.
- Built a self-service delivery framework with GitHub Actions and Argo CD, integrating container image scanning into CI/CD workflows and cutting application onboarding effort by **60%**.
- Manage AWS IAM access and permissions for platform environments, supporting least-privilege access and operational security.
- Implemented Blue/Green deployments for on-premises applications, **reducing release-related downtime by 95%**.
- Built a Terraform automation agent that converts infrastructure requests into validated Git pull requests in **under 10 minutes**, with human approval required before merge. *GitHub Link*
- Mentored **7 engineers** on Kubernetes, CI/CD, and reliability practices.

Pure Storage

Sep 2022 - Nov 2024

Member of Technical Staff

- Developed an automated build system publishing kernel modules nightly for **10,000+** kernel versions, cutting qualification time from **3 days to 1 day**.
- Created a one-click Portworx release pipeline that reduced packaging and release execution time from **hours to minutes**.
- Maintained the kernel compatibility matrix and evaluated new OS and kernel releases for product qualification.

XenonStack

Aug 2019 - Sep 2022

DevOps Engineer

- Migrated production workloads from Mesos to Kubernetes, covering deployment design, configuration, cutover, and validation.
- Integrated SonarQube SAST checks into CI/CD pipelines to identify code-quality and security issues before release.
- Implemented backup and recovery for Kubernetes workloads using Velero, Restic, and MinIO.
- Managed installation, upgrades, and monitoring for production MySQL clusters.

Skills

Cloud & Platforms: Amazon Web Services (AWS), AWS EKS, Kubernetes, Docker, Helm

Systems: Linux, TCP/IP, DNS, TLS/SSL, Load Balancing, Network Troubleshooting

Reliability: Prometheus, Grafana, Loki, Tempo SLI/SLO, Error Budgets, Incident Response, RCA, On-Call

Automation: Terraform, Python, Ansible, Bash

CI/CD: GitHub Actions, Jenkins, Argo CD, GitOps

Education

Graphic Era (deemed to be) University

2015 - 2019

Bachelor of Technology, Computer Science & Engineering