Sandhya Kumari

Site Reliability Engineer

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Professional Summary

Dedicated **Site Reliability Engineer (SRE)** with a strong foundation in **Infrastructure as Code (IaC)** and system automation. Proficient in **Python** and **Bash scripting** to eliminate manual toil and optimize operational workflows. Experienced in setting up **Observability stacks** (Prometheus, Grafana) to ensure **high availability** and system health. Passionate about designing scalable, fault-tolerant distributed systems and implementing **DevOps** best practices to accelerate reliable software delivery.

Technical Skills

SRE & Operations	**Site Reliability Engineering**, **Observability**, Incident Management, Capacity Planning, Toil Reduction
Monitoring & Logging	**Prometheus**, **Grafana**, ELK Stack (Logstash, Kibana), CloudWatch, AlertManager
Cloud & Infrastructure	**AWS (EC2, EKS, S3)**, **Terraform (IaC)**, Docker, Kubernetes, Ansible
Scripting & Languages	**Python**, **Bash/Shell**, Go (Basic), Java, SQL
CI/CD & Tools	Jenkins, Git/GitHub, Linux Administration, Automated Deployment Pipelines

Technical Experience

07/2025–Present **Site Reliability Intern**, *DevOps Quest*, System Stability & Automation

- **Infrastructure Automation:** Provisioned and managed scalable cloud resources on **AWS** using **Terraform**, ensuring infrastructure consistency and reducing provisioning time.
- **Observability Setup:** Implemented a robust monitoring stack using **Prometheus and Grafana**, creating custom dashboards to visualize **SLIs/SLOs** and system latency.
- **Toil Reduction:** Automating manual deployment and operational tasks using **Python scripts**, significantly reducing human error and freeing up engineering time.
- **Reliability Engineering:** Configured **Kubernetes** auto-scaling and health checks to maintain service availability during simulated high-traffic events.

07/2024–12/2024 **Software Developer**, *FOODISTA*, Performance & Availability

- **High Availability:** Designed the backend architecture to ensure **99.9% uptime** for 1,000+ daily users, utilizing load balancing techniques to handle concurrent traffic.
- **Performance Tuning:** Optimized database queries and API response times, reducing system latency by **40%** and improving the overall user experience.
- **Incident Response:** Acted as the primary point of contact for system outages, performing basic **Root Cause Analysis (RCA)** to prevent recurrence of deployment failures.
- **Deployment Pipelines:** Streamlined the release process by implementing automated deployment scripts, ensuring reliable and repeatable software releases.

Education

2022–2026 **B.E. Computer Science (Specialization in Cloud & DevOps)**, *Chandigarh University*, Punjab
CGPA: 7.65
Relevant Coursework: Distributed Systems, Operating Systems (Linux), Computer Networks, Reliability Engineering.

2022 **Intermediate (Class XII)**, *KV AFS High Grounds*, Chandigarh, *82%*

Academic Research & Projects

01/2023–03/2023 **Research Analyst**, *Distributed Systems Security*

- **System Resilience:** Analyzed the resilience of distributed payment systems against cyber attacks, researching methods to maintain data integrity under stress.
- **Risk Assessment:** Evaluated failure modes in large-scale networks, proposing architectural improvements to enhance fault tolerance.

Certifications & Interests

Certifications	Oracle Cloud Infrastructure Generative AI Professional
Interests	Distributed Systems, Chaos Engineering, Linux Internals, Open Source Contribution