Rajath Jaiprakash

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Summary

Site Reliability Engineer - 2 with around **3 years** of specialized experience in **Infrastructure Automation**, **CI/CD pipelines**, and **Logging/Monitoring pipelines**. Delivered **50%** reduction in manual operations by designing and implementing **20+ Ansible** roles across production environments. Demonstrated expertise in troubleshooting complex infrastructure issues by reducing system downtime by **30%** through enhanced observability solutions.

Skills

Programming	**Python**, **Bash Scripting**, **C++**, **Powershell**, **CI/CD (GitHub Actions/Jenkins)**
Tools	**Ansible**, **Docker**, **Kubernetes**, **Elastic Stack (ELK)**, **InfluxDB**, **Grafana**, **Telegraf**, **NagiosXI**
Certifications	**The Linux Foundation: LFS162**, **Red Hat Certified Engineer (EX294)**

Work Experience

Akamai Technologies, Inc. | Site Reliability Engineer 2 **Oct 2024 - Present**

- Architected end-to-end **CI/CD pipelines** for our Access Border Routers by integrating it with our Simulator and custom deployment scripts, reducing deployment time by **75%** and reducing our downtime to just **30 seconds**.
- Engineered fault-tolerant system by developing **Python** based auto-remediation scripts for **8 critical services**, eliminating **85%** of previously manual recovery procedures and maintaining **90%** service availability.
- Identified, Troubleshooted and Solved a Business critical compliance issue which impacted our **6WIND VSRs**, across **18 Distributed Edge sites**, in a time span of **3 days**.

Akamai Technologies, Inc. | Site Reliability Engineer **July 2022 - Oct 2024**

- Improved our deployment workflow by crafting **20+ Ansible roles** for automated configuration management, reducing deployment errors by **65%** and cutting rollout time from days to hours across **4 environments**.
- Executed the complex migration of **18 production logging servers** by designing comprehensive transition plan and implementing parallel cutover strategy, maintaining **100%** service availability and processing **250K+ daily transactions** without interruption.
- Spearheaded DevOps knowledge sharing initiative by conducting **6 technical workshops** for **30+ engineers** over **3 different time-zones**, resulting in **40%** fewer deployment-related incidents across development teams.
- Transformed logging infrastructure by migrating and optimizing **Elastic Stack** deployment for **150GB+ of daily logs**, accelerating log search performance by **300%** and enabling real-time anomaly detection for **20+ critical services**.
- Revitalized monitoring system by implementing hierarchical alert structure in **NagiosXI** and **InfluxDB** for **200+ nodes**, decreasing false positives and redundant alerts by **70%** and reducing mean time to identification from **10 minutes** to **30 seconds**, During my Internship.

Projects

ClipForge - AI Driven Video Processing Pipeline

- Engineered an end-to-end local and open-source automated video generation pipeline by integrating **WhisperX**, **FFmpeg**, and **AI agents** created using **Langchain Python**. Project has received over **77k+** impressions to date.
- Constructed intelligent metadata generation system by leveraging **AI-based text processing algorithms**, improving **SEO optimization** and increasing content discoverability by **40%**. Created the automated testing flow by building **CI/CD pipelines** using **Github Actions**.
- Devised portable containerized solution by implementing **Dockerized** deployment workflow. Integrated real-time monitoring system by developing **Discord notification services**, providing instantaneous updates on processing status for **100+ daily video operations**.

Education

PES University, Bangalore

- B.Tech in **Electronics and Communication Engineering** (**GPA: 8.99**) **2018 - 2022**
- B.Tech Minors in **Computer Science and Engineering** **2018 - 2022**

Extras

IEEE Paper: **Analog Front End Modelling of Miniature CMOS Image Sensor**

- Led a cross-functional research team by coordinating circuit design and simulation efforts, resulting in the publication of an innovative medical imaging technology with potential applications in minimally invasive procedures with a power consumption of just **4.8 mW**.