Rajath Jaiprakash

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Summary

Site Reliability Engineer II with around **3 years** of specialized experience in **Infrastructure Automation**, **CI/CD**, and **Logging/Monitoring pipelines**. Achieved **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, Shell Scripting, C++, Powershell Scripting
Certifications	The Linux Foundation: LFS162, Red Hat Certified Engineer (EX294)
Tools & Technologies	Ansible, Docker, Kubernetes, GitHub Actions, Jenkins, Elastic Stack (ELK), OTel, Syslog-ng, TIG Stack, Prometheus, NagiosXI

Work Experience

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

- Architected end-to-end **CI/CD pipelines** for our Access Border Routers by integrating it with our AAA Simulators and custom deployment scripts, reducing deployment time by **75%** and our downtime to just **30 seconds**.
- Engineered fault-tolerant system by developing **Python** based auto-remediation scripts for **8 critical services**, significantly reduced manual recovery procedures and improved service availability.
- Identified, Troubleshot and Solved a Business critical compliance issue which impacted our **6WIND VSRs**, across **18 Distributed Edge sites**.

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 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 near **100%** service availability and processing over **250K+ daily transactions** without interruption.
- Enhanced logging infrastructure by optimizing, migrating and upgrading our **ELK Cluster** to efficiently handle **150GB+** of daily logs, resulting in a **300%** increase in log search performance and enabling real-time anomaly detection for **20+ critical services**.
- 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.
- Enhanced monitoring for **200+** nodes by implementing hierarchical alerting structure in **NagiosXI** using **InfluxDB** and **OpenSNMP Collector**, reducing false positives and redundant alerts by **70%**.

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.
- Built AI-based metadata generation, improving **SEO** and content discoverability by **40%**. Implemented automated **CI/CD** testing via **GitHub Actions**.
- Created a **Dockerized** deployment workflow and real-time **Discord** notification system, supporting 100+ daily video operations.

Education

PES University, Bangalore 2018 – 2022

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

Publications & Leadership

IEEE CONECCT 2022: 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**.