Srilekha Senthilkumar
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Summary

Proactive and results-oriented **DevOps Engineer** with 3 years of hands-on experience in cloud infrastructure management, automation, and improving development pipelines. Skilled in **AWS**, **Terraform**, **Kubernetes**, and **CI/CD tools** like Jenkins and GitHub Actions. Proven ability to deliver scalable, automated solutions that increase efficiency and reduce downtime. Adept at troubleshooting, monitoring, and maintaining high-availability systems for smooth production operations.

Technical Skills

- **Cloud Platforms**: AWS (EC2, S3, RDS, Lambda)

- **Infrastructure as Code (IaC)**: Terraform, CloudFormation

- **Containerization**: Docker, Kubernetes

- **CI/CD Tools**: Jenkins, GitHub Actions, AWS CodePipeline

- **Scripting Languages**: Python, Bash

- **Monitoring & Logging**: Prometheus, Grafana, CloudWatch

- **Version Control**: Git, Bitbucket, GitHub

- **Configuration Management**: Ansible

- **Operating Systems**: Linux (Ubuntu), Windows

- **Databases**: MySQL

Professional Experience

DevOps Engineer

Tata Consultancy Services (Singapore Airlines) — Chennai, India
Nov 2021 – Present

- **Cloud Infrastructure Management:** Designed and maintained scalable AWS infrastructure for production workloads, ensuring high availability and regulatory compliance. Automated infrastructure provisioning with CloudFormation, reducing deployment time by 30% and minimizing human error.
- **CI/CD Pipeline Development:** Developed and maintained CI/CD pipelines using Jenkins, supporting continuous integration and delivery processes. Streamlined deployment workflows and improved deployment times, enabling faster and more reliable releases.
- **Infrastructure Optimization:** Optimized server configurations for high availability by improving Nginx redirection status codes, enhancing performance and reducing latency during high traffic periods.
- **Performance Optimization:** Spearheaded load testing initiatives using JMeter, conducting over 24 tests to ensure system resilience under high user loads. Enhanced overall application performance, ensuring seamless user experience even during peak traffic.
- **Security & Compliance:** Strengthened security by implementing trust certificates across 10 application servers and developing Content Security Policies (CSP) for 18 servers.

- **Monitoring & Logging:** Integrated key metrics into Grafana dashboards for real-time performance monitoring and troubleshooting. Set up CloudWatch alerts for proactive issue resolution, ensuring high system uptime and operational efficiency.
- **Collaboration:** Worked closely with cross-functional teams to support application deployments and troubleshoot issues, ensuring smooth production operations. Developed custom AWS S3 policies for secure data access and sharing across teams.
- **Cross Site Scripting Fix:** Mitigated cross-site scripting (XSS) vulnerabilities across 11 booking workflows, utilizing regex patterns and custom Java methods to sanitize inputs, improving the security compliance of critical web applications and protecting against potential cyber threats with best practices.

Education

Bachelor of Engineering in Civil Engineering
Sri Sairam Engineering College — Chennai, India
Aug 2017 – Apr 2021 | CGPA: 8.74/10

Certifications

- **AWS Certified Cloud Practitioner –** Issued 2023

Key Projects

Static Website using Nginx, Docker and Kubernetes

- Designed and containerized the static website with Nginx using Docker, reducing deployment time by 60% compared to traditional server setups and implemented a Kubernetes cluster for container orchestration.

CI/CD Pipeline for Python Web Application

- Built and deployed a **CI/CD pipeline** using **GitHub Actions** to automate the testing and deployment of a Python web application, resulting in faster feedback loops and a 25% decrease in release time.

Additional Information

- Willing to relocate or work remotely.
- Available for on-call rotation and emergency incident response.