Srilekha Senthilkumar

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LinkedIn | GitHub | Portfolio

SUMMARY

DevOps Engineer with 3.7 years of experience building and automating infrastructure for high-scale SaaS platforms. Expertise in AWS, Terraform, Kubernetes (EKS), CI/CD, observability, and Python scripting. Recently built an AI-powered DevOps Agent for auto-remediation and anomaly detection. Immediate Joiner.

TECHNICAL SKILLS

- **Cloud:** AWS (EC2, S3, RDS, IAM)
- **IaC:** Terraform, CloudFormation, Ansible
- **CI/CD:** GitHub Actions, Jenkins, CodePipeline
- **Containers:** Docker, Kubernetes, Helm
- **Monitoring:** Prometheus, Grafana, CloudWatch, Splunk
- **Languages/Tools:** Python, Bash, Git, JIRA
- **Certifications:** AWS Cloud Practitioner (2023), AWS Solutions Architect Associate (2025)

PROFESSIONAL EXPERIENCE

DevOps Engineer — Tata Consultancy Services (Singapore Airlines), Chennai

Nov 2021 – Present

- Provisioned secure AWS infrastructure (EC2, RDS, IAM) with Terraform for 30M+ user travel platform.
- Implemented S3 lifecycle policies & right-sized EC2, reducing AWS monthly costs by ~25%.
- Automated secret management using Python + AWS Secrets Manager, reducing manual risk.
- Collaborated on Jenkins-based CI/CD infrastructure by supporting script and config changes, gaining hands-on exposure to pipeline structure and environment-level automation.
- Integrated CloudWatch & Grafana for performance monitoring and alerts.
- Mitigated 50+ XSS vulnerabilities using input validation, regex & OWASP practices.
- Led OS migration from Amazon Linux 2 to AL2023 with zero downtime.

PROJECTS

AI-Powered DevOps Agent – GitHub

Built an automated DevOps assistant using Prometheus + Ollama LLM to monitor CPU spikes, analyze logs, restart containers, and send Slack alerts. Simulated full pipeline from detection → RCA → remediation → notification.

EKS Cluster Automation – GitHub

Built a fully automated CI/CD pipeline using GitHub Actions, Terraform, and Docker to deploy a Flask app on EKS, reducing deployment time from 7.5 hours to 3 seconds (~99.99% time saved).

EDUCATION

B.E. Civil Engineering — Sri Sairam Engineering College, Chennai

Aug 2017 – Apr 2021 | CGPA: 8.74/10