

SRILEKHA SENTHILKUMAR

DevOps / Platform Engineer | AWS | Kubernetes & OpenShift | Terraform | CI/CD | Python Automation

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Immediate Joiner

PROFESSIONAL SUMMARY

DevOps / Platform Engineer with nearly 5 years of experience supporting enterprise AWS infrastructure and production OpenShift/Kubernetes environments. Skilled in Linux troubleshooting, CI/CD, Python/Bash automation, observability and production incident response. Contributed to improved incident detection across 150+ applications, operational automation and AWS cost optimization. AWS Solutions Architect – Associate certified, focused on infrastructure automation, platform reliability and scalable deployments.

CERTIFICATIONS

- AWS Solutions Architect - Associate (SAA-C03) - 2025
- AWS Cloud Practitioner - 2023

EXPERIENCE

DevOps Engineer & OpenShift Administrator | [Tata Consultancy Services, Chennai](#)

Nov 2021 - Oct 2026

- Supported production AWS infrastructure using EC2, VPC, IAM, route tables, security groups, NACLs, ALB, Route 53, CloudWatch and Auto Scaling for environments supporting 30M+ users.
- Administered OpenShift 4.x clusters across Development, QA and Production, supporting namespace onboarding, LDAP authentication, RBAC, monitoring and production troubleshooting for 150+ applications.
- Investigated a production OpenShift OAuth authentication outage using dig, nslookup and curl; identified incorrect endpoint resolution and coordinated with the Network team to restore connectivity.
- Implemented Prometheus-based monitoring and alerting using PrometheusRule, Alertmanager and Grafana for 150+ applications, reducing mean time to detect incidents from 2–4 hours to under 5 minutes.
- Configured alerts for CPU, memory, disk utilization, pod lifecycle events and container failures to improve production incident detection.
- Developed Python automation to transform Alertmanager webhook payloads into structured incident notifications, reducing manual incident triage effort by approximately 60%.
- Supported Jenkins CI/CD workflows through pipeline configuration, scripting, troubleshooting and deployment support across application environments.
- Automated secrets-management workflows for 10+ applications using Python and AWS Secrets Manager, eliminating hardcoded credentials in the supported workflows.
- Contributed to AWS cost optimization through EC2 rightsizing, Reserved Instance planning and Auto Scaling adjustments, achieving approximately 25% savings in the measured scope.
- Authored 10+ production incident runbooks and participated in incident response, root-cause analysis and preventive improvements across application, infrastructure and network teams.

PROJECTS

AI-Assisted Infrastructure Monitoring & Incident Analysis Prototype | AWS EC2 · Python · Prometheus · Node Exporter · Ollama/Gemma 3 · Docker · Slack · GitHub Actions

- Built an AWS EC2 monitoring prototype using Prometheus and Node Exporter to collect infrastructure metrics and query CPU utilization through Python.

- Developed a Python-based log-analysis workflow using a locally hosted LLM (Ollama/Gemma 3) to generate incident summaries from sample application logs.
- Implemented rule-based Docker container restart logic and Slack webhook notifications to demonstrate automated incident response.
- Configured a manually triggered GitHub Actions workflow to connect to EC2 over SSH and execute monitoring and remediation scripts.

GitHub: <https://github.com/SrilekhaS20/DevOpsAgent-Task-Srilekha-Senthilkumar>

Kubernetes DevOps Homelab - Kubernetes · Terraform · Jenkins · Docker

- Provisioned a 3-node Kubernetes cluster using Terraform with remote state (S3 + DynamoDB), reusable modules, and Infrastructure as Code best practices.
- Built Jenkins CI/CD pipelines integrating Docker image build, automated testing and Kubernetes releases.

GitHub: <https://github.com/SrilekhaS20/devops-homelab-2026>

SKILLS

- **Cloud & Infrastructure:** AWS (EC2, VPC, IAM, S3, RDS, ALB/ELB, Route 53, Auto Scaling, CloudWatch, Secrets Manager)
- **Containers & Orchestration:** Kubernetes, OpenShift 4.x, Docker, EKS
- **Infrastructure as Code:** Terraform, Ansible
- **CI/CD & Automation:** Jenkins, GitHub Actions, Git
- **Programming & Scripting:** Python, Bash, Groovy
- **Observability & Monitoring:** Prometheus, Grafana, Alertmanager
- **Networking:** VPC, Subnets, Route Tables, Security Groups, NACLs, Load Balancers, DNS, HTTP/HTTPS
- **Security & Access:** IAM, LDAP, RBAC, Trivy, Secrets Manager
- **Operating Systems:** Linux (RHEL, CentOS, Ubuntu)
- **Tools:** JIRA, Confluence

EDUCATION

B.E. Civil Engineering | Sri Sairam Engineering College, Chennai | 2017 – 2021