Sreehari S

DevOps Engineer

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SUMMARY

B.Tech Computer Science graduate (2026) with hands-on experience building AWS infrastructure and CI/CD pipelines using Terraform, Docker, Kubernetes, Jenkins, and GitHub Actions. Developed projects involving ECS Fargate, EKS, ALB, IAM, DynamoDB, Lambda, CloudWatch, and SNS. Experienced in GitOps with Argo CD, application monitoring using Prometheus and Grafana, and automated incident detection. Currently learning GCP fundamentals. Seeking a Junior DevOps Engineer role focused on cloud infrastructure, deployment automation, and system reliability.

EDUCATION

B.Tech, Computer Science & Engineering, St Thomas College of Engineering & Technology, Chengannur **(CGPA 7.13)** 2022 – 2026

TECHNICAL SKILLS

Cloud (AWS)	VPC, IAM, ALB, ECS Fargate, EKS, ECR, EC2, Lambda, API Gateway, DynamoDB, S3, SNS, CloudWatch
GCP Fundamentals	Currently learning: GKE, Artifact Registry (GAR), Cloud SQL, Cloud Run
Networking	VPC, Public/Private Subnets, Security Groups, ALB, TCP/IP, DNS, HTTP/HTTPS, Routing, NAT/IGW, TLS
IaC & Config	Terraform (modules), Ansible
CI/CD & GitOps	Jenkins, GitHub Actions, Argo CD, SonarQube, Maven, GitHub OIDC
Containers	Docker, Kubernetes, NGINX Ingress, Docker Hub, GHCR
Observability	Prometheus, Grafana, PromQL, Loki, Node Exporter, CloudWatch alarms
Languages & OS	Python, Bash, SQL (MySQL, PostgreSQL), C#/.NET Core, JavaScript, Linux, Git

PROJECTS

AWS ECS Fargate Deployment | *Terraform, GitHub Actions, ECS Fargate, ALB, CloudWatch*

- Deployed a containerized FastAPI application on ECS Fargate with 2 tasks behind an Application Load Balancer and configured health checks. Provisioned VPC, subnets, security groups, ECS, ECR, ALB, IAM, CloudWatch, and SNS using Terraform.
- Built a GitHub Actions pipeline (Pytest → Docker build → ECR → ECS deployment) using GitHub OIDC for keyless AWS authentication; configured CloudWatch CPU alarms with SNS email alerts.

CloudOps360 — Cloud Incident Detection and Monitoring | *AWS Lambda, DynamoDB, CloudWatch, SNS, GitHub Actions*

- Deployed a FastAPI and DynamoDB service to AWS Lambda and API Gateway through GitHub Actions; achieved 38 passing Pytest tests.
- Implemented CloudWatch log analysis for automated incident detection and SNS email notifications containing incident ID, component, and status.
- Exposed Prometheus request and latency metrics and built Grafana dashboards with Loki and Grafana Alloy for log monitoring.

NutriFlow: GitOps on AWS EKS | *Terraform, EKS, Jenkins, SonarQube, Argo CD, ECR*

- Provisioned AWS VPC, EKS cluster, and ECR repositories using reusable Terraform modules across 2 availability zones for a meal-subscription application.
- Built a Jenkins pipeline with parallel builds, a SonarQube quality gate, ECR image publishing, and automated manifest updates synchronized by Argo CD.
- Deployed frontend and backend applications on Kubernetes with 2 replicas each, health probes, resource limits, and AWS ALB Ingress.

Multi-VM Infrastructure Monitoring | *Prometheus, Grafana, Node Exporter, AWS EC2*

- Deployed Prometheus and Grafana on a central EC2 instance to scrape 2 worker nodes over private IPs, secured with security groups.
- Built Grafana dashboards for host metrics, instrumented a Flask application with custom Prometheus metrics, and configured PromQL alerting rules for error rate and CPU usage.

CloudRAG-DevOps — Document Processing Backend | *FastAPI, PostgreSQL, pgvector, Docker Compose, Pytest*

- Built a FastAPI backend with upload, health, and readiness endpoints using PostgreSQL and pgvector through Docker Compose; stored document records and chunk embeddings, verified embedding dimensions using SQL, and added 3 Pytest tests.

EXPERIENCE & TRAINING

DevOps Training, Zoople Technologies — Jun 2026 – Present

- Building and deploying CI/CD pipelines using Docker, Kubernetes, Jenkins, Terraform, and Ansible across AWS environments.

.NET Intern, NeST Digital Academy — Mar – Apr 2026

- Developed and debugged .NET Core features; worked with REST APIs and object-oriented design.

LEADERSHIP

- **Chairman**, College Union (Jan – Mar 2026) | **Chairman**, IEEE Student Branch STC (Nov 2023 – Mar 2026)
- **Operations Lead** (Jan 2025 – Mar 2026) and **Community Lead** (Jun – Dec 2024), IEDC STC