

# SAI VENKATA SIVA MUTYALA

DevSecOps Engineer

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GitHub: [github.com/msaivenkatasiva](https://github.com/msaivenkatasiva) | Portfolio: [sivacloudlabs.online](https://sivacloudlabs.online) | 📍 Hyderabad, India

## PROFESSIONAL SUMMARY

Results-driven DevSecOps Engineer with 4+ years of professional experience, including 3 years of dedicated expertise in architecting, deploying and managing cloud-native infrastructure and CI/CD pipelines on AWS. Proven expertise in Kubernetes orchestration, Infrastructure as Code using Terraform, and end-to-end DevSecOps transformation including shift-left security, SonarQube, Trivy and OWASP integration. Demonstrated ability in cross-functional collaboration, proactive problem solving, and continuous improvement initiatives. Successfully delivered multiple production-grade projects independently — showcasing ownership from infrastructure design to security hardening, cost optimization, and high-availability deployment strategies. Passionate about pipeline automation, container security and mentoring developers on DevSecOps best practices.

## TECHNICAL SKILLS

**Cloud Platform:** AWS — EC2, EKS, RDS, S3, VPC, IAM, ALB, Route53, CloudFront, ACM, SSM, ECR, CloudWatch, GuardDuty

**Containers & Orchestration:** Docker, Kubernetes, Helm, Amazon EKS, IRSA, HPA, Cluster Autoscaler, Blue-Green Deployments

**Infrastructure as Code:** Terraform (Custom Modules, Remote State, Workspaces, Import), Ansible, Configuration Management

**CI/CD & Automation:** Jenkins (Shared Libraries, Multibranch), GitHub Actions (Reusable Workflows), Pipeline as Code, Nexus

**DevSecOps & Security:** SonarQube, Trivy, OWASP, Dependabot, Shift-Left Security, Secret Scanning, SAST, Container Security, GitOps

**Monitoring & Observability:** Prometheus, Grafana, CloudWatch, Container Insights, Fluent Bit, AlertManager

**Scripting & Languages:** Linux, Shell Scripting, YAML, Groovy (Basics)

**Database:** MySQL, Amazon RDS, DynamoDB

**Soft Skills:** Cross-functional Collaboration, Proactive Problem Solving, Continuous Improvement, Technical Mentoring, Agile

## WORK EXPERIENCE

**Wipro** Hyderabad, India

**DevSecOps Engineer** Aug 2023 — Present

**Project: Banking Digital Transformation Platform** | Aug 2025 — Present | DevSecOps Engineer

**Tech Stack:** AWS, EKS, Terraform, GitHub Actions, Docker, Kubernetes, Helm, SonarQube, Trivy, OWASP, IRSA, SSM, CloudWatch

- Architected complete AWS cloud infrastructure from scratch using Terraform — custom VPC modules, dual ALB architecture, EKS cluster, RDS, CloudFront, ACM and Route53 — delivering fully operational environment in under 30 minutes
- Spearheaded shift-left DevSecOps pipeline using GitHub Actions — SonarQube quality gates, Trivy image scanning and OWASP dependency checks — blocking 15+ critical vulnerabilities before reaching production
- Engineered reusable GitHub Actions workflows centralizing CI/CD pipeline code across 6 microservices — slashing new microservice onboarding from 2 days to 2 hours through pipeline as code
- Achieved 100% zero-downtime deployments through blue-green strategy with automated health-check-triggered rollback — ensuring continuous delivery and high availability
- Established IRSA for pod-level IAM security — each microservice assigned a dedicated least-privilege IAM role — eliminating shared credential risks platform-wide
- Optimized AWS cloud spend by 30% through EC2 right-sizing, spot instances for non-production workloads, VPC endpoints and lifecycle policies — directly impacting bottom line
- Accelerated CI/CD pipeline execution from 18 minutes to 4 minutes through parallel job execution, dependency caching and streamlined Docker multi-stage builds
- Designed HPA and Cluster Autoscaler configuration — scaling pods from 3 to 15 during peak load — sustaining 99.9% uptime without manual intervention
- Adhered to strict RBI compliance and change management protocols — all production deployments executed during scheduled maintenance windows with zero unplanned downtime

**Project: Healthcare Digital Transformation Platform** | Aug 2023 — Aug 2025 | DevOps Engineer

**Tech Stack:** AWS, EKS, Terraform, Jenkins, Docker, Kubernetes, Ansible, Prometheus, Grafana, CloudWatch, RDS, S3

- Revamped Jenkins CI/CD pipelines through shared library implementation — cutting deployment time from 45 minutes to 12 minutes across 10 microservices and doubling release frequency
- Managed and scaled AWS EKS infrastructure using Terraform — slashing provisioning time from 3 hours to 20 minutes through complete Infrastructure as Code adoption
- Launched Prometheus and Grafana monitoring stack with custom dashboards and proactive alerting — driving MTTR down from 2 hours to 35 minutes through enhanced observability

- Containerized and orchestrated 10 microservices using Docker and Kubernetes — sustaining 99.9% uptime via multi-AZ deployment, pod anti-affinity rules and self-healing automation
- Streamlined configuration management using Ansible — eliminating manual provisioning errors across dev, staging and production through fully automated server setup
- Strengthened infrastructure governance with Terraform remote state in S3 and DynamoDB locking — enabling safe concurrent operations and continuous drift detection
- Eliminated 60% of pipeline failures by integrating SonarQube quality gates and automated test coverage checks — safeguarding production from defective releases
- Collaborated cross-functionally with development, QA and security teams — guiding developers on DevSecOps adoption and shift-left security principles

**Infrd** Bangalore, India

*Data Processing Executive Oct 2021 — June 2022*

**ICICI Lombard General Insurance** Hyderabad, India

*Customer Support Executive Mar 2021 — Oct 2021*

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## PERSONAL PROJECTS

**E-Commerce Microservices Platform** | [github.com/msaivenkatasiva](https://github.com/msaivenkatasiva) | [sivacloudlabs.online](https://sivacloudlabs.online)

**Tech Stack:** AWS, EKS, Terraform, Jenkins, Docker, Helm, Prometheus, Grafana, Ansible, GitHub, IRSA, HPA

- Independently designed and deployed a 12-microservice e-commerce platform on AWS EKS — complete infrastructure as code using Terraform with reusable VPC modules hosted on GitHub
- Configured IRSA, pod anti-affinity, taints and tolerations, HPA and Cluster Autoscaler — delivering production-grade security posture and zero-intervention auto-scaling from 3 to 20 pods
- Developed centralized Jenkins shared library covering VM-based and EKS-based pipelines for Node.js, Java and Python — cutting onboarding from 2 days to 30 minutes
- Shrunk Docker images from 850MB to 180MB using multi-stage builds and Alpine base images — boosting deployment speed by 60% and reducing ECR storage costs by 65%

**3-Tier DevSecOps Infrastructure** | [github.com/msaivenkatasiva](https://github.com/msaivenkatasiva) | [sivacloudlabs.online](https://sivacloudlabs.online)

**Tech Stack:** AWS, EKS, Terraform, GitHub Actions, SonarQube, Trivy, OWASP, Docker, Kubernetes, Helm, SSM, CloudWatch

- Pioneered a complete DevSecOps pipeline using GitHub Actions — unit tests, code quality analysis, container vulnerability scanning and dependency auditing — achieving zero critical security escapes to production
  - Orchestrated full AWS infrastructure provisioning through Terraform — VPC, EKS, RDS, ALB, CloudFront, ACM, Route53, SSM — standing up production-ready environment in under 30 minutes
  - Generated 35% reduction in AWS monthly spend through systematic right-sizing, reserved capacity planning, spot instance adoption and data transfer optimizations — saving approximately ₹1.2L/month
  - Eliminated hardcoded credentials across the entire stack by integrating External Secrets Operator with AWS SSM Parameter Store — enforcing zero-secrets-in-code policy organization-wide
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## EDUCATION

**Bachelor of Technology (B.Tech)**

2016 — 2020

QIS College of Engineering and Technology

CGPA: 7.0

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## KEY ACHIEVEMENTS & CERTIFICATIONS

- Generated 35% AWS cost reduction saving ₹1.2L/month through systematic right-sizing, spot instance adoption and VPC endpoint optimization
- Sustained 99.9% uptime across production microservices through high availability design, self-healing automation and blue-green release strategy
- Slashed deployment time by 73% — from 45 minutes to 12 minutes — through Jenkins shared library adoption and pipeline modernization
- Blocked 15+ critical security vulnerabilities from production through shift-left DevSecOps transformation across the SDLC
- Launched personal portfolio on AWS S3 + CloudFront + Route53 at [sivacloudlabs.online](https://sivacloudlabs.online) — a live demonstration of production-grade cloud architecture
- Independently delivered two production-grade projects from scratch — proving end-to-end DevSecOps ownership and engineering excellence