

# Sai Vanapalli

## DevOps & Cloud Engineer

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### PROFILE SUMMARY

Dedicated and result-driven DevOps Engineer with 4 + years of experience in designing, automating, and securing cloud-native environments. Skilled in implementing CI/CD pipelines for faster and more reliable releases, applying Infrastructure as Code for scalable deployments, and leveraging containerization with orchestration to ensure system resilience. Experienced in DevSecOps practices with a strong focus on cost optimization, observability, and achieving high availability, while continuously learning new technologies and practices.

### TECHNICAL SKILLS

Cloud Technologies	AWS, Azure
Operating Systems	Linux (Ubuntu, RHEL) and Windows
Build Tools	Maven
Container Technologies	Kubernetes, Docker, Openshift, Helm, ECS
Scripting	Shell, YAML and Python
Version Control System	Git, GitHub and Gitlab
Configuration Management	Ansible
Infrastructure as Code	Terraform and AWS Cloud Formation
CI/CD	Jenkins, Github Actions, Gitlab CI, Argo CD
Monitoring Tools	Prometheus, Grafana and CloudWatch
Web Servers	Nginx, Apache2, Tomcat Server
Security Management	SonarQube and Trivy

### EDUCATION

Adikavi Nannaya University  
Bachelor of Science

Rajahmundry, India  
2018 – 2021

## EXPERIENCE

Cognizant

**Devops & Cloud Engineer**

Hyderabad, India

Apr 2022 – Present

Nine Softech

**Jr Cloud Engineer** ( Internship )

Hyderabad, India

Sep 2021 – Mar 2022

## PROJECTS

**DFS** (Discover Financial Service)

Nov 2023 – Present

Client: Cognizant

Hyderabad

Description :

DFS is a leading American financial services company that operates Discover Bank, providing credit cards, checking, and savings products. The infrastructure followed a hybrid model, where applications and DevOps workloads were deployed on AWS Cloud, while customer and transaction data was securely stored in on-premises data centers to meet compliance requirements.

- Designed CI/CD pipelines using Jenkins and GitHub Actions with integrated vulnerability scanning, code quality checks, and automated deployment security gates.
- Automated provisioning and configuration with Terraform and Ansible while enforcing compliance standards and security baselines for cloud and on-prem resources.
- Deployed applications on AWS using Kubernetes and Docker, securing container images with scanning tools and applying RBAC policies in clusters.
- Used Helm for Kubernetes release management, applying security-focused configurations and version-controlled deployments.
- Implemented DevSecOps practices such as secret management, IAM role enforcement, and automated compliance checks in pipelines.
- Enabled encryption at rest and in transit for S3 storage, EBS volumes, and database connections to protect sensitive information.
- Configured AWS security services including IAM, CloudTrail and Security Groups for access control, auditing, and intrusion detection.
- Developed Python and Shell scripts for security automation tasks like log analysis, patch validation, and compliance reporting.
- Integrated security tools into CI/CD pipelines to detect vulnerabilities early and block insecure code from reaching production.
- Set up observability with Prometheus, Grafana, and ELK stack to track system health, audit logs, and detect anomalies in real time.
- Applied container security practices with image signing, namespace isolation, and network policies in Kubernetes clusters.
- Automated disaster recovery and backup policies with AWS S3 and lifecycle management while ensuring encryption and compliance with regulations.

- Hardened Linux systems with secure configurations, patch automation, and compliance verification against CIS benchmarks.
- Worked closely with InfoSec and audit teams to maintain adherence to PCI DSS, ISO, and internal security policies.
- Supported Agile release cycles by ensuring every build and deployment was validated against security and compliance standards before go-live.

## TIME AND SPACE

Apr 2022 – Sep 2023

Client: HMR (Hyderabad Metro Rail)

Hyderabad

Description :

Developed a digital advertising platform for Hyderabad Metro enabling brands to display ads on train exteriors, interiors, and station screens. Designed cloud-based infrastructure ensuring high availability, real-time content delivery, and scalable ad management for 8L+ daily commuters.

- Supported CI/CD pipeline setup using Jenkins and GitHub Actions, automating builds, unit tests, and deployments for application teams.
- Assisted in creating infrastructure as code using Terraform and Ansible, enabling repeatable deployments in AWS environments.
- Worked on containerization with Docker and basic Kubernetes deployments, using Helm for simple application rollouts.
- Learned and applied DevSecOps practices by integrating SonarQube for code quality checks and Trivy for vulnerability scanning.
- Helped configure monitoring dashboards with Prometheus, Grafana, and CloudWatch to track application performance and system health.
- Optimized basic AWS resources with VPC setup, load balancing, and autoscaling policies to maintain stability in test environments.
- Participated in Agile ceremonies using Jira and Confluence, gaining hands-on exposure to modern DevOps methodologies like CI/CD, IaC, and containerization.

## ACHIEVEMENTS

- Reduced deployment time by 60% through automated CI/CD pipelines using Jenkins, GitHub Actions, Maven, and Nexus, enabling faster and more reliable software releases across multiple environments.
- Improved application availability to 99.5% uptime by deploying containerized workloads with Docker and Kubernetes on EKS, leveraging Helm, ArgoCD, and Route 53 for seamless scaling and traffic management.
- Achieved 20% cost savings on AWS by applying auto-scaling, resource right-sizing, and automated cleanup strategies, while strengthening cloud security with Vault, Trivy, SonarQube, GuardDuty, and KMS.
- Optimized build costs by leveraging GitHub Actions for small-scale builds and Jenkins for enterprise pipelines, ensuring efficient resource utilization and faster feedback cycles.