

# 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.