

# Vineeth Kumar Shetty

## DevOps/DevSecOps Engineer

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### Professional Summary

DevSecOps / DevOps Engineer with 2.5 years of experience designing AWS cloud infrastructure and building Jenkins-based CI/CD pipelines. Strong hands-on expertise in Docker, Kubernetes, and DevSecOps practices including SonarQube and Trivy integration for automated security scanning. Experienced in IAM hardening, VPC design, and OWASP Top 10 controls. Proven ability to build end-to-end DevSecOps workflows and troubleshoot production CI/CD and container environments.

### Work Experience

#### Associate System Engineer, TietoEvry India Pvt Ltd

06/2022 – 07/2024 | Bangalore, India

- Contributed to designing and managing secure AWS VPC architectures with public/private subnets, route tables, NAT gateways, and VPC peering, supporting scalable cloud deployments.
- Implemented AWS IAM security best practices including least-privilege access, IAM roles, policies, and MFA enforcement, reducing unauthorized access risks by 35% and improving cloud security posture.
- Played a key role (60%) in building end-to-end CI/CD pipelines using GitHub, Jenkins, automating build, test, and deployment workflows and reducing manual deployment effort by 50%.
- Led 80% of application containerization using Docker and deployed workloads on Kubernetes with horizontal auto-scaling, improving deployment consistency and application availability by 40%.
- Applied OWASP Top 10 security controls during application deployment and cloud infrastructure configuration, contributing to 30% reduction in common application vulnerabilities.

#### Assistant Professor & IT Consultant,

09/2024 – 08/2025 | Moodbidri, India

Alva's Institute of Engineering & Technology

- Conducted hands-on VAPT engagements for web applications and networks.
- Delivered training in Cybersecurity, Cloud Computing, and Cryptography.
- Mentored students for careers in SOC, Cloud Security, and Penetration Testing.

### Internship

#### DevOps Trainee, Microdegree

10/2025 – Present | Mangalore, India

- Built AWS lab environments including VPCs, subnets, route tables, and NAT gateways.
- Implemented IAM users, roles, and security policies as part of cloud security exercises.
- Developed CI/CD pipelines using Jenkins and GitHub for automated builds and deployments.
- Containerized applications using Docker and deployed them on Kubernetes clusters.
- Worked on DevSecOps pipelines integrating SonarQube and Trivy for automated security scanning.

### Projects

#### DevSecOps CI/CD Pipeline with AWS ECR, Jenkins & Monitoring

- Built an end-to-end CI/CD pipeline using Jenkins to automate Docker image builds and deployments.
- Containerized a Python application with Docker and pushed images to AWS ECR.
- Configured Jenkins pipeline (Jenkinsfile) for automated build, tag, login, and push to ECR.
- Deployed application containers on AWS EC2 and exposed services via Docker port mapping.
- Hands-on with AWS IAM, EC2 security groups, Docker networking, and Linux troubleshooting.
- Integrated observability dashboards in Grafana for real-time resource usage (CPU, memory, containers).
- Managed GitHub version control with structured repo (Jenkinsfile, monitoring configs, screenshots, README).
- Hands-on with AWS IAM, EC2 security groups, Docker networking, and Linux troubleshooting.

#### Full Stack Next.js DevOps CI/CD Project

- Designed and implemented a full-stack Next.js application with backend API routes and a professional dashboard UI
- Built an end-to-end CI/CD pipeline using Jenkins to automatically pull code from GitHub, build Docker images, and deploy containers on AWS EC2
- Containerized the application using Docker to ensure consistent and repeatable deployments
- Automated deployment workflow including stopping previous containers and launching updated versions without downtime
- Deployed and hosted the application on AWS EC2 and exposed it via public IP

#### Personal DevSecOps CI/CD Pipeline

- Deployed Jenkins in Docker and configured Docker socket access.
- Integrated Trivy for container scanning and SonarQube for code quality gates.
- Built complete CI/CD workflow from GitHub to container deployment.
- Troubleshoot Jenkins-Docker permission issues and pipeline failures.

## **Skills**

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**Cloud Platforms:** AWS (EC2, S3, RDS, Lambda, VPC, ECR), Serverless Basics

**Infrastructure as Code (IaC):** Terraform, Ansible, YAML

**CI/CD & DevOps Tools:** Jenkins, GitHub Actions, GitLab CI/CD

**DevSecOps:** SonarQube, Trivy

**Containerization & Orchestration:** Docker, Kubernetes

**Monitoring & Logging:** CloudWatch, Guard Duty, ELK Stack, Grafana, Prometheus, cAdvisor

**Security Monitoring:** Splunk, Wazuh, Carbon Black

**Programming / Scripting:** Python, Shell

**Penetration Testing:** Burp Suite, Zap, Nessus, Qualys

## **Certification**

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**Fortinet Associate Cybersecurity** (Valid till 2027)

**Aviatrix Multicloud Associate** (Valid 2027)

**AWS Solutions Architect (MicroDegree)**

**Cloud & DevOps + AI (MicroDegree) - Pursuing**

## **Education**

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**Master of Science, Mangalore University**

12/2020 – 05/2022 | Mangalore, India

- Cybersecurity , Digital Forensics

**Bachelor of Science, Alvas College**

05/2016 – 04/2019 | Moodbidri, India

- Physics, Mathematics, Statistics