

VASANTH A

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PROFESSIONAL SUMMARY

Early-career DevOps/Cloud Engineer with hands-on experience in AWS infrastructure, Terraform, Docker, CI/CD automation, and cloud deployment workflows. Built self-service deployment platforms and automated CI/CD pipelines using AWS, GitHub Actions, Jenkins, and Python. Practical DevSecOps experience with SAST, SCA, IaC security, and vulnerability triage using SonarQube, OWASP Dependency-Check, Snyk, Trivy, and Checkov. Focused on infrastructure automation, secure delivery, reliability, and observability.

WORK EXPERIENCE

DevSecOps Intern

SecIQ Technologies LLP

Jul 2026 – Present

Remote – Bengaluru, India

- Performed SAST triage using SonarQube across Python, Java, and JavaScript projects, validating True/False Positives, reviewing source-code issues, and documenting OWASP classifications and remediation recommendations.
- Performed SCA and dependency vulnerability triage using OWASP Dependency-Check and Snyk, analyzing CVEs, affected packages, versions, severity, and validating findings against security databases.
- Integrated SonarQube and OWASP Dependency-Check into a Jenkins Declarative Pipeline, automating SAST/SCA scans, report generation, and SonarQube Quality Gate validation for a Java/Maven application.
- Performed container vulnerability triage using Trivy and documented findings across source code, dependencies, and Docker images with remediation recommendations.

Cloud Computing Intern

Codec Technologies Pvt. Ltd.

Jan 2026 – Apr 2026

Remote

- Deployed and configured cloud infrastructure on AWS (EC2, S3, VPC) in a professional environment as part of a 3-month AICTE & ICAC approved internship.
- Implemented Infrastructure as Code using Terraform and containerization with Docker to automate deployment workflows.
- Collaborated in a remote team environment to deploy and manage cloud-based solutions, contributing to CI/CD pipeline integration and secure infrastructure practices.

PROJECTS

ML Deployment Platform | AWS, Terraform, Docker, Flask, PostgreSQL, boto3, Paramiko

[GitHub](#)

- Reduced application deployment time by **83% (30 min → under 5 min)** by building a self-service ML deployment platform that automates EC2 provisioning, Docker installation, application deployment, and NGINX configuration through a 13-step orchestration pipeline using boto3 and Paramiko.
- Designed a modular AWS architecture using Terraform with VPC, ECS Fargate, RDS PostgreSQL, ALB, CloudFront, S3, ECR, IAM, and Secrets Manager for a scalable multi-tier deployment model.
- Designed secure traffic and service architecture with CloudFront for frontend delivery, ALB-based application routing, private service networking, layered security groups, and least-privilege IAM controls.
- Integrated AWS Secrets Manager to securely manage database credentials, JWT secrets, and SSH keys, keeping sensitive values out of application code and container images.

AWS DevOps Platform | AWS, Terraform, Docker, GitHub Actions, NGINX, CloudWatch

[GitHub](#)

- Provisioned AWS infrastructure using Terraform, automating VPC, EC2, IAM, S3, and CloudWatch resources through Infrastructure as Code.
- Built an end-to-end GitHub Actions CI/CD pipeline with automated testing, multi-stage Docker builds, GitHub Container Registry publishing, EC2 deployment, and post-deployment health checks.
- Applied cloud and IaC security practices using least-privilege IAM, GitHub Secrets, non-root Docker containers, encrypted S3 storage, Checkov-based Terraform scanning, and hardened NGINX configuration.
- Implemented CloudWatch dashboards, centralized logging, custom infrastructure metrics, and application telemetry with boto3, and validated the deployment with k6 load testing achieving **0.00% request errors**.

TECHNICAL SKILLS

Cloud: AWS (EC2, ECS Fargate, S3, IAM, VPC, RDS, CloudWatch, ECR, ALB, CloudFront, Secrets Manager)
Networking: TCP/IP, HTTP/HTTPS, DNS, Load Balancing, VPC, Subnets, Route Tables, Internet Gateway, Security Groups
Infrastructure as Code: Terraform
Containers & Orchestration: Docker, Docker Compose, Kubernetes (Pods, Deployments, Services, kubectl)
CI/CD: Jenkins, GitHub Actions, Groovy (Declarative Pipelines), Automated Testing, Deployment Automation
Programming & Automation: Python, Bash, boto3, Paramiko
Monitoring & Observability: Prometheus, Grafana, Logging, Metrics, Health Checks, k6
DevSecOps & Security: SAST, SCA, IaC Security, Vulnerability Triage, CVE Analysis, OWASP Top 10, SonarQube, OWASP Dependency-Check, Snyk, Trivy, Checkov
Web & Application Infrastructure: NGINX, Gunicorn, Flask, PostgreSQL
Tools & Version Control: Linux (Ubuntu), Git, GitHub

EDUCATION

Master of Science (M.Sc.) in Data Science <i>Periyar University</i> CGPA: 7.5/10	Aug 2024 – Apr 2026 <i>Salem, Tamil Nadu</i>
Bachelor of Science (B.Sc.) in Statistics <i>Presidency College (Autonomous), University of Madras</i> CGPA: 8.47/10	Jun 2021 – Apr 2024 <i>Chennai, Tamil Nadu</i>

CERTIFICATIONS

Continuous Integration and Continuous Delivery (CI/CD) IBM · Coursera • Completed in March 2026; covered CI/CD pipelines, build automation, and deployment strategies.	<u>Verify Credential</u>
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