

SHRI RAM

DevOps & Cloud Security Engineer

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Professional Summary

DevOps and Cloud Security Engineer with 2+ years of experience designing, deploying, and securing cloud-native applications on AWS. Strong expertise in Kubernetes (EKS), Docker, Terraform (Infrastructure as Code), and CI/CD pipelines using Jenkins and GitHub Actions. Proven ability to build highly available, scalable, and secure systems with a focus on automation, monitoring, and zero-downtime deployments.

Technical Skills

Cloud Platforms: AWS (EC2, EBS, S3, Auto Scaling, Route53, CloudFront, VPC, API Gateway, RDS, Aurora, Lambda, EKS, ECR, CloudWatch, CloudTrail), Google Cloud (GKE)

DevOps & IaC: Docker, Kubernetes, Terraform, Jenkins, Ansible, Helm, CloudFormation, ArgoCD

CI/CD & Automation: GitHub Actions, AWS CodePipeline, AWS CodeBuild, Bash, Python, GitLab

Security (DevSecOps): IAM, KMS, WAF, Vulnerability Scanning, IDS/IPS, Threat Detection

Monitoring & Logging: Prometheus, Grafana, CloudWatch, ELK Stack

DevOps Concepts: CI/CD, Infrastructure as Code (IaC), High Availability, Scalability, Load Balancing, Zero-Downtime Deployment, Blue-Green Deployment, Rolling Updates, Cloud Cost Optimization

Programming: Python, SQL

AI/ML (Working Knowledge): Pandas, NumPy, TensorFlow, Scikit-Learn, XGBoost

Professional Experience

Athenova

Mar 2025 – Present

Research Associate / Software Developer

- Designed and automated end-to-end data pipelines for large-scale ML datasets in cloud-based environments.
- Performed EDA and feature engineering, improving model accuracy by **15–25%**.
- Built automated preprocessing workflows in Python, reducing manual data handling by **40%**.
- Developed and tuned ML/DL models using Scikit-Learn and TensorFlow for predictive analytics.
- Collaborated with DevOps workflows to ensure scalability, reliability, and efficient deployment of data pipelines.

Teachnook

Oct 2024 – Dec 2024

AWS Cloud Intern

- Deployed and managed AWS services including EC2, S3, Lambda, and RDS for cloud-native applications.
- Implemented IAM least-privilege access, KMS encryption, and WAF rules to enhance cloud security posture.
- Supported DevOps practices by improving system reliability and enforcing secure cloud configurations.
- Monitored infrastructure performance and security using CloudWatch and CloudTrail.

Y Blue Technology

Jun 2023 – Aug 2024

IT Support Technician

- Maintained **99% system availability** through proactive infrastructure and network troubleshooting.
- Resolved hardware, OS, and connectivity issues to ensure operational continuity.
- Assisted in maintaining high availability by identifying and resolving recurring system bottlenecks.

Key Projects

DevSecOps Netflix Clone Deployment (Postgraduate Thesis)

- Deployed a microservices-based Netflix Clone on AWS EKS using Docker and CI/CD pipelines.
- Enabled scalable and **zero-downtime deployments** through container orchestration.
- Integrated automated vulnerability scanning, resolving **20+ critical security issues**.
- Optimized cloud resources, achieving **15–20% cost reduction**.

TrendStore – E-commerce Orchestration

- Provisioned AWS infrastructure using Terraform (Infrastructure as Code).
- Built Jenkins CI/CD pipelines for Docker image builds and Kubernetes deployments.
- Implemented Prometheus and Grafana dashboards for monitoring, alerting, and performance tracking.

MindTrack – Cloud-Native CI/CD Pipeline

- Developed automated CI/CD workflows using AWS CodeBuild, ECR, and CodePipeline.
- Deployed containerized services to EKS and exposed applications via AWS Load Balancer.

Certifications (Relevant to DevOps & Cloud)

- **Deep Learning using TensorFlow** — IBM Mar 2023
- **Docker Essentials: A Developer Introduction** — IBM Mar 2023

Education

Master of Computer Applications (MCA) 2024

Vellore Institute of Technology (VIT), Vellore

Bachelor of Computer Applications (BCA) – Cloud & Information Security 2022

Vels Institute of Science, Technology & Advanced Studies, Chennai