MAHESH KUMAR S

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EDUCATION

Sri Eshwar College of Engineering	**B.E CSE**	**CGPA 8.32**	**2023-2027**
Vinayakar Matric Higher Sec School	**HSC**	**93.3%**	**2021-2023**
Good Shepherd Matric High School	**SSLC**	**PASS**	**2020-2021**

INTERNSHIP

DevOps & SRE - RAMPeX Technologies **2025 (June – July)**

CICD END TO END PIPELINE - Built a CI/CD pipeline for a MERN app using Jenkins to automate testing, code quality checks, and Docker image deployment. Integrated SonarQube for analysis and pushed images to Docker Hub. Used ArgoCD and Image Updater to deploy on Kubernetes with automated image updates. Enabled fast, reliable, and fully automated delivery to production.

PROJECTS

MERN-APP Monitoring **2025**

- Developed a production-grade MERN stack application deployed on a Kubernetes cluster, integrated with a robust monitoring and alerting system using Prometheus, Grafana, and Alert Manager.
- Instrumented custom application metrics and configured Blackbox Exporter to monitor HTTP uptime and application endpoints.
- Established real-time email notifications for critical alerts, ensuring high availability and rapid issue resolution.

Tech stack: MERN Stack, K8s, Prometheus, Grafana, Alert Manager, Blackbox Exporter

DevOps Pipeline Tool – MERN & AWS **2025**

- Developed a CI/CD Pipeline Management System using the MERN stack to streamline DevOps workflows with features like pipeline creation and deployment monitoring.
- On AWS using VPC, EC2, ALB, Route 53, and Certificate Manager for secure, scalable access.
- Integrated Amazon DocumentDB for managed data storage and hosted the system under a custom subdomain with support for real-time analytics and multi-cloud deployments.

Tech stack: MERN Stack, AWS VPC, AWS EC2, AWS Document DB, ALB, Route 53, AWS ACM.

Infra & Config Management **2025**

- Designed and automated AWS infrastructure provisioning using Terraform in Spacelift, creating VPC, subnets, route tables, Internet Gateway, NAT Gateway, and security groups for a multi-tier setup.
- Integrated **Ansible** with Spacelift to configure provisioned EC2 instances — installing Docker on public instances and Node.js on private instances via automated playbooks.
- Enabled a fully automated CI/CD-style infrastructure pipeline where Terraform handled infra provisioning and Ansible handled software configuration, ensuring consistent, repeatable deployment.

Tech stack: Terraform, Ansible, AWS VPC, AWS EC2, Spacelift, Docker, Node.js

HANDS-ON Experience with AWS Service and DevOps Practice **GitHub**

CERTIFICATIONS

AWS Certified Cloud Practitioner	**AWS**	**2024**
AWS Certified Solutions Architect - Associate (SAA-C03)	**AWS**	**2025**
Docker Mastery: with Kubernetes +Swarm from a Docker Captain	**Udemy**	**2025**

CODING PROFILE

LeetCode Solved 200+ problems | **Profile Link**

CodeChef Solved 380+ problems | **Profile Link**

Geeks For Geeks | **Profile Link**

SKILLS

Languages	C++, Shell Scripting, HTML, CSS, JavaScript(basics)
Core	DBMS, Operating System (Ubuntu OS), Networking
AWS Cloud	Services: Compute, Storage, DevOps, Security, Backup & HA Design
Azure Cloud	Azure Fundamentals, Azure Administrative Services
Tools/Platform	GitHub, GitLab, Jenkins, Docker, Kubernetes, AWS DevOps (ECR, ECS,EKS, CodePipeline, CodeBuild), Ansible, Terraform, Prometheus & Grafana, SpaceLift