

KARRI SAI VARDHAN

Cloud & DevOps Engineer

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SUMMARY

B.Tech student (2027) with hands-on experience building cloud-native infrastructure on AWS. Engineered a self-healing automation platform using Kubernetes, Prometheus, and Chaos Engineering that reduced manual intervention by ~90%. Proficient in CI/CD automation, container orchestration, and Infrastructure as Code.

SKILLS

DevOps & CI/CD: Jenkins, Docker, Kubernetes, Ansible, Git/GitHub
Cloud (AWS): EC2, S3, EKS, RDS, IAM, VPC, Lambda, CloudWatch
IaC & Scripting: Terraform, Bash Scripting
Monitoring: Prometheus, Grafana, AWS CloudWatch
Programming: Python, Java, C
Other: Chaos Engineering (Chaos Mesh), Linux

PROJECTS

PulseOps – Self-Healing DevOps Platform *Jenkins · Docker · Kubernetes · Prometheus · Grafana · Chaos Mesh · AWS Lambda*

- Engineered a self-healing automation platform simulating pod crashes via Chaos Mesh; automated detection through Prometheus/CloudWatch and triggered AWS Lambda remediation, achieving 99.9% uptime.
- Reduced manual intervention by ~90% through end-to-end automated failure detection and recovery workflows.
- Built CI/CD pipelines with Jenkins for continuous deployment of microservices across Kubernetes clusters.
- Integrated Grafana dashboards with Prometheus metrics for real-time observability and performance monitoring.

2048 Game Deployment on AWS EKS using Fargate *AWS EKS, Kubernetes, Fargate, Helm, IAM, ALB, kubectl, eksctl*

- Deployed Kubernetes-based 2048 game app on AWS EKS (Fargate) with ALB Ingress.
- Configured IAM roles, Helm, and kubectl for secure and automated cluster management.
- Implemented serverless container orchestration and verified external access.

End-to-End CI/CD Pipeline

Jenkins · Docker · Ansible · AWS EC2

- Designed and deployed a full CI/CD pipeline automating build, test, and deployment of a containerized web application.
- Containerized the application with Docker, ensuring environment consistency across dev and production.
- Automated server configuration and application deployment using Ansible, eliminating manual provisioning steps.

EXPERIENCE

DevOps Intern | APSSDC

May – June 2025

- Built CI/CD pipelines using Jenkins and Docker on AWS EC2, automating build and deployment workflows.
- Containerized applications with Docker, improving deployment consistency and reducing environment-related failures.
- Managed EC2 instances including security group configuration, networking setup, and instance lifecycle operations.

EDUCATION

B.Tech – AI & Machine Learning | Aditya College of Engineering and Technology

2023 – 2027

GPA: 8.80 / 10

CERTIFICATIONS

Python – Infosys Springboard | **Docker Foundations Professional Certificate** – LinkedIn Learning | **Introduction to Industry 4.0 & IIoT** – NPTEL (IIT)