

SURENDAR E

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WORK EXPERIENCE

Internships

Chennai

HCL Tech / DevOps & QA Automation Engineer Intern

Sep 2024 - Present

- Built a DevOps projects with real-time CI/CD pipeline & Deployments.
- Worked on the ANCRA (CDP) project as a QA Automation Engineer focusing on automation testing & improving test execution efficiency.

VR Dakshin Pvt Ltd / Networking & IT Support

Jun 2023 - Jul 2023

- Supported network infrastructure setup and IT hardware maintenance.
- Assisted in troubleshooting network issues and configuring routers/switches.

EDUCATION

Anna University

Chennai

BE (CSE) – Sri Muthukumaran Institute of Technology, Chennai | CGPA: 7.8 | 2021 - 2025

12th Grade – Chennai Corporation Higher Secondary School, Chennai | 76.94% | 2021

PROJECT EXPERIENCE

DevOps Dashboard – Real-Time CI/CD Monitor (Final Year Project)

github.com/Mr-Surendar

Tools: GitHub, Jenkins, Docker, Terraform, EKS, React

- Built a secure dashboard displaying GitHub and Jenkins build pipelines.
- Used Docker and Jenkins for CI/CD and Terraform for infrastructure provisioning.

Deployed a Containerized Application to AWS EKS

- Architected a three-tier VPC setup with private/public subnets
- Integrated AWS ALB Ingress Controller for external access via Application Load Balancer

CI/CD Pipeline with Helm & Argo CD

Tools: Git, Helm, Kubernetes, Argo CD

- Built an end-to-end CI/CD pipeline to automate app build, containerization, and deployment to Kubernetes
- Used Helm charts for K8s templating and Argo CD for GitOps-based deployment

GitLab CI/CD Pipeline for Application Delivery

Tools: GitLab, Docker, GitLab Runner

- Designed a GitLab pipeline for build, test, SAST scanning, and deployment of a board game app
- Implemented pipeline stages with runners, artifacts, and container registries

Infrastructure as Code with Terraform

Tools: Terraform, AWS (VPC, RDS, EC2, IAM)

- Developed complete infrastructure using Terraform to provision VPCs, subnets, route tables, RDS, and IAM roles
- Implemented remote backend state management with version locking and modularization

App Monitoring with Prometheus & Grafana

Tools: Node Exporter, Prometheus, Grafana

- Configured end-to-end monitoring stack with Prometheus for metrics scraping and Grafana for visualization
- Set up alerting rules, custom metrics, and service discovery for real-time insights

SKILLS

DevOps & Cloud: GitHub/Actions, Jenkins, Docker, Kubernetes, Terraform, NGINX, Ansible, Prometheus, Grafana, AWS (EC2, EKS, VPC, ALB), Azure, GCP

CI/CD & Automation: SonarQube, Trivy, Argo CD, Helm

Infrastructure as Code: Terraform, AWS CLI, Python Boto3

Monitoring & Logs: Prometheus, Grafana, CloudWatch

Programming & Scripting: Python, Bash, Shell Script, MERN

Databases: MongoDB, SQL