




# CHENNA VENKATA SAI DHARAN

DevOps Engineer | AWS & Kubernetes | CI/CD | Terraform | Docker | Java

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## PROFESSIONAL SUMMARY

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Computer Science graduate passionate about DevOps and backend development. Proficient in building CI/CD pipelines, automating infrastructure using tools like Ansible and Docker, and deploying applications using Kubernetes and AWS. Secured applications using vulnerability scanning tools and reduced manual deployment efforts by up to 90%. Eager to apply DevOps automation expertise in real-world cloud-native environments

## PROJECTS

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### Automated CI/CD Pipeline with Docker and Jenkins

**Stack:** Git, GitHub, Jenkins, SonarQube, Docker, Docker Hub, Trivy, OWASP Dependency-Check

- Created an end-to-end CI/CD pipeline for static web deployment, integrating security validation at each stage.
- Integrated Jenkins with GitHub for auto-triggered builds and SonarQube for code analysis.
- Built and pushed Docker containers after scanning with OWASP and Trivy.
- Reduced deployment errors by 80% and manual effort by 70%.

### Automated CI/CD Pipeline with Docker, Jenkins, Kubernetes & Monitoring

**Stack:** Git, Jenkins, Docker, SonarQube, OWASP, Trivy, Kubernetes, Argo CD, Prometheus, Grafana.

- Designed a fully automated CI/CD pipeline deployed to a 3-node Kubernetes cluster via YAML manifests.
- Configured KOPS for setting up the cluster and Argo CD for continuous delivery.
- Integrated Prometheus and Grafana to monitor application and node health.
- Achieved 90% reduction in deployment time and improved system reliability.

### E-Commerce Product Management Web App

**Stack:** Java, Spring Boot, PostgreSQL, Maven, Spring Data JPA, REST API, React.js

- Developed a full-stack product management web application to simulate an e-commerce catalog and cart system.
- Built RESTful APIs using Spring Boot and Spring Data JPA for handling product CRUD operations.
- Designed relational schema using PostgreSQL to store product data including name, brand, description, price, image URL, and stock.
- Implemented a dynamic and responsive frontend using React.js, featuring product listing, detail view, cart actions, and admin controls (Add, Edit, Delete).
- Integrated Axios to communicate between the frontend and backend seamlessly.

### Library Management System (Spring Boot REST API)

**Tech Stack:** Java, Spring Boot, Spring Data JPA, MySQL REST API, Maven, Apache Tomcat

- Built a RESTful web application for library management using Spring Boot.
- Integrated Spring Security for user authentication and role-based access (Admin/User).
- Designed REST APIs for book issuance, returns, and CRUD operations on books and users.
- Used Spring Data JPA for ORM and optimized DB interactions with indexing and schema tuning.
- Integrated embedded Apache Tomcat, allowing seamless deployment without external server setup.
- Applied DTOs and service-layer abstraction for better maintainability and separation of concerns.

TECHNICAL SKILLS

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- DevOps Tools: Docker, Jenkins, Kubernetes, Ansible, Terraform
- Programming: Core Java, Spring, Spring Boot, Hibernate, Bash
- Web & App Servers: Apache Tomcat (Embedded & Standalone)
- Cloud Platforms: AWS (EC2, S3, IAM, VPC, EKS, CloudFormation)
- Version Control: Git, GitHub
- Database: MySQL, PostgreSQL
- Monitoring and Security : SonarQube, OWASP Dependency-Check, Trivy, Prometheus, Grafana
- OS: Linux

CERTIFICATIONS

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- Docker Essentials for DevOps - **Offered by Coursera**

ACHIEVEMENTS

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- Participated Hackathon in **IIITDM** Kancheepuram, Chennai.

EDUCATION

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<b>Kalasalingam Academy of Research and Education</b> B.Tech Computer Science and Engineering. <i>Grade: 7.86 CGPA</i>	KrishnanKovil, TN. Aug 2021 – May 2025
<b>NRI Junior college</b> MPC, Intermediate.	Guntur, AP. May 2019 -Mar 2021
<b>Sri Chaitanya High School</b> Secondary School of Education.	Proddatur, AP. Jun 2018 – Mar 2019