

VENGADESH D

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Education

B.Sc - Information Technology , Sri Krishna Arts and Science College- Coimbatore

2023 - 2026

Internship Experience

Java Programming Intern - CodeTech IT solutions (Remote) | Jan 2025 - Feb 2025

- Developed proficiency in core Java concepts, including object-oriented programming (OOP) principles, data structures, and algorithms.
- Collaborated with the team to brainstorm and propose solutions for real-time problems, contributing to the real world application.

Full Stack Web Developer Intern - Accent Techno Soft | May 2025 - May 2025

- Built a full-stack event management system with real-time features.
- Practiced version control, MySQL data integration, and client-server communication.

Projects

OD Application System (Spring Boot, Spring Security, MySQL, HTML, CSS, JS)

- Engineered a secure full stack OD Attendance Management System using Spring Boot and JPA with MySQL, implementing custom Spring Security authentication and robust CSRF protection for authenticated API endpoints.
- Improved transactional integrity and concurrency handling by implementing defensive logic to manage database race conditions during high volume student registrations, preventing duplicate entries and transaction rollbacks.
- Developed a geolocation based fraud prevention module using the Haversine formula to enforce a 0.5 km attendance boundary, ensuring all check ins are location verified.
- Automated administrative attendance reporting using a scheduled job to identify eligible students by batch with case insensitive roll number validation and deliver detailed reports to class tutors via email.
- Enhanced system responsiveness and user experience by implementing asynchronous email processing using Async and integrating browser geolocation to automatically capture accurate event coordinates for organizers.

AI Public Speaking and Presentation Coach (Java, Spring Boot, REST APIs, Speech to Text, AI APIs, SQL)

- In Progress

- Architecting an AI driven web application to improve public speaking and presentation skills using automated speech analysis.
- Implementing audio capture and Speech to Text pipelines to convert raw speech into structured analyzable text data.
- Designing AI based evaluation logic to assess speaking pace clarity filler word frequency and communication confidence.
- Developing scenario based practice workflows for interviews academic presentations and technical demos.
- Building scalable RESTful backend services using Java Spring Boot for speech processing and feedback delivery.
- Applying privacy first principles and secure data handling practices for user audio and transcription data.
- Designing modular and extensible system architecture to support future AI model enhancements and feature expansion.
- Implementing basic performance monitoring and logging to analyze API behavior and improve system reliability.

Skills

Languages :Java, HTML, CSS, Python (academic)

Frameworks & Tools :Spring Boot, Git, IntelliJ, Linux, Bootstrap

Database :SQL

Concepts :OOP, RESTful APIs, Backend Architecture

Currently Learning :Distributed Systems

Positions of Responsibilities

Event Coordinator, Hackers Club SKASC - Coordinated and managed technical events, coding competitions, and workshops, showcasing leadership and organizational skills.

Event Organizer, Cyber Hackathon - Cyber Cell, SKASC - Led the planning and execution of an inter college level hackathon, managing participant communication and event flow. (Aug. 2023 - Present)

Achievements

Winner, Digital Phoenix Award Hack24 - Recognized for exceptional performance and innovative contributions.

1st Prize, Paper Presentation - Awarded for presenting research on "Early Detection of Parkinson's Disease Using AI".

Winner, Solve4Society Hackathon (10 Hours) - Led a team to develop a farmer-consumer platform, securing top honors among 40+ teams.

Special Appreciation, Hackers Club SKASC - Recognized for leadership and event organization

CERTIFICATIONS

Oracle Autonomous Database Cloud 2025 – Certified Professional
Deloitte Australia Technology Job Simulation on Forage (2025)

- [Link](#)

- [Link](#)