

# 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	- <a href="#">Link</a>
Deloitte Australia Technology Job Simulation on Forage (2025)	- <a href="#">Link</a>