

HARSHA T G

HEADER & CONTACT INFO

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SUMMARY

Computer Science student with strong skills in Java . Passionate about solving problems, building scalable applications, and exploring. Seeking opportunities in Software Development, Full-Stack Engineering.

EDUCATION

Bachelor of Engineering (B.E) in Computer Science

Dr. Ambedkar Institute of Technology, Bengaluru

2022 – 2026 | CGPA: 9.20

ACADEMIC PROJECTS

Web-Chat | Node.js , Mongoose, Express.js, React.js, Socket.io [↗](#)

- Developed a full-stack real-time chat application enabling users to **sign up, log in, and securely communicate**. Implemented **messaging** with **Socket.IO**, supporting **one-to-one communication**.
- Integrated **Cloudinary** for **image upload and sharing** within chats.
- Designed and managed **MongoDB database with Mongoose** for efficient user and message storage.
- Secured authentication and authorization using **JWT and bcrypt** in **Node.js/Express backend**.

Fully Functional Backend Server | Node.js , Mongoose, Express.js

- A fully functional backend server built as part of the Backend Assignment by Hitesh Choudhary. This project implements backend features like user authentication, video upload, playlist management, tweet system, likes, subscriptions , dashboard, using Node.js, Express.js, and MongoDB..
- **Features:** JWT-based authentication, Video CRUD + owner info via aggregation, Commenting system with pagination, Tweet system (post, edit, delete), Likes system (for videos & comments), Subscriptions (toggle-based), Playlist management (create, update, delete, fetch), Playlist management (create, update, delete, fetch), All routes tested via Postman

WorldWise (Track Your Adventures) | React.js ,LeafLet API

- A World Map that tracks your Footsteps into every city you can think of . and show your friends how you have wandered the world
- **Features :** React routers (for single page rendering) ,Context API (to reduce prop-drilling) ,Vite (for development of React app), UseReducer (State Mangement) and UseEffect(To handle Async Functions) , LeafLet API (for tracking the map).

IMDB cloned Movie Application | React, API

- The IMDb website offers a range of features, including access to a vast catalog of movies and TV shows, personalized recommendations, watchlist management, ratings and reviews.
- **Features :** State Management (useState,useRef) , useEffect(for async Handling), create-react-App for developing the React Application.

Real-Time Speed Control in Sensitive Zones using IoT Sensors

- Developing an IoT-based system to monitor vehicle speeds in sensitive zones.
- This project aims to design and implement a line-following robotic vehicle equipped with RFID based zone detection and automatic speed control in different simulated zones such as school areas, traffic signal intersections, and road curves
- Implemented real-time alerts and automated speed regulation using microcontrollers and sensors.

SKILLS

Technical Skills

- **Programming:** Java, C-Programming, Javascript
- **Web Development:** HTML, CSS, MySQL, Node.js, React.js, MongoDB,
- **Tools & Frameworks:** Git, Bootstrap, Tailwind ,Postman,Cloudinary,Redux-ToolKit
- **Computer Science Fundamentals :** Operating System, DataBase Management System, Computer Networking

TECHNICAL SKILL AND ACHIVEMENTS

Solved 200+ Problems in LeetCode

Achieved 200+ problem solutions on LeetCode, covering arrays, strings, recursion, dynamic programming, graphs, stack and queue , Linked lists and Binary Trees.

