

## Education

Vellore Institute of Technology University  
B.Tech, Department of Computer Science and Engineering

September 2022 – Ongoing  
CGPA: 7.97

## Technical Skills

**Programming Languages:** C++, JavaScript, TypeScript, HTML, CSS

**Frameworks & Libraries:** React.js, Next.js, Express.js, Tailwind CSS, WebRTC, WebSockets

**Backend & Tools:** Node.js, Git, JWT, Postman, REST APIs, Gemini LLM, Vapi.ai

**Databases & ORM:** MongoDB, PostgreSQL, Prisma, Supabase

**Core CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming (OOPS), DBMS, Operating Systems, Computer Networks

**Other Concepts:** Authentication & Authorization, Real-Time Communication, AI Integration, Geospatial Queries, Software Development, Full-Stack Development

## Projects

### AI Recruiter Voice Agent | *Next.js, React, Node.js, Vapi.ai, Supabase, Gemini LLM* GitHub Oct 2023

- Engineered a voice-based AI interview platform, automating 70% of initial candidate screenings and reducing manual recruiter effort by 45%.
- Integrated real-time voice interactions using Vapi.ai, featuring adaptive follow-up questions and low-latency speech synthesis for natural dialogue.
- Implemented LLM-powered question generation and scoring logic, improving candidate evaluation consistency and accuracy by 40%.
- Developed comprehensive recruiter analytics dashboards to monitor 5+ interview metrics, including completion rates and candidate scores.
- Streamlined automated transcript generation and summarization using embeddings, enabling faster review cycles and one-click sharing.

### MediConnect | *React.js, Node.js, MongoDB, WebRTC, WebSockets, Gemini LLM* GitHub Sept 2024

- Designed a full-stack hospital management platform supporting patient, doctor, and admin roles with 5+ integrated healthcare workflows.
- Launched an AI-powered medical chatbot using Gemini LLM to analyze symptoms and reports, increasing consultation readiness by 20%.
- Architected real-time video consultation modules using WebRTC and WebSockets, successfully reducing patient response times by 30%.
- Implemented JWT-based authentication with role-based access control and verified doctor onboarding to ensure secure medical data handling.
- Devised patient dashboards displaying appointment history and consultation records to enhance overall user experience and engagement.

### RideConnect | *Node.js, MongoDB, WebSockets, Google Maps API* GitHub June 2024

- Spearheaded a real-time ride-booking application handling concurrent requests and live trip updates through persistent WebSocket connections.
- Reduced polling overhead by 50% by implementing WebSocket-based event communication for ride requests and status updates.
- Designed secure OTP-based authentication workflows for riders and drivers, incorporating robust session management protocols.
- Optimized MongoDB geospatial queries to accurately locate nearby drivers within 5 seconds based on real-time rider coordinates.
- Integrated a ride history tracking system with detailed pickup, drop, and timestamp data to improve transparency and user satisfaction.

## Achievements

- Solved 400+ Data Structures and Algorithms problems across LeetCode and GeeksforGeeks, demonstrating strong problem-solving skills.
- Achieved a Global Rank of 1149 in the LeetCode Biweekly Contest, placing within the top percentile of global participants.
- Named a Finalist in 3+ team-based hackathons conducted at VIT and other national-level engineering events.