

# MEKALA ABHILASH

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## EDUCATION

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### B.Tech in Computer Science Engineering

2023 – Present

Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad

Current CGPA: 8.69 / 10

## PROJECTS

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### AI VOICE MOCK INTERVIEW PREPARATION (2025)

[GitHub](#) | [Live Demo](#)

*Technologies:* Next.js, React.js, Firebase, Tailwind CSS, TypeScript, Vapi AI, Shadcn UI, Google Gemini, Zod, Vercel

- Simulates voice-based mock interviews using Vapi AI and Google Gemini for dynamic question generation and feedback.
- Begins with AI voice pre-screening (role, experience, level) to personalize the interview session.
- Scores interviews out of 100 with detailed feedback on strengths and improvement areas.
- Stores interview history and feedback in a secure dashboard for future review and progress tracking.
- Built using Shadcn UI and Tailwind CSS for a modern, responsive interface.
- Secure authentication using Firebase with modular, scalable codebase.

### AI VOICE MEDICAL ASSISTANT (2025)

[GitHub](#) | [Live Demo](#)

*Technologies:* Next.js, React.js, TypeScript, Tailwind CSS, Vapi AI, Google Gemini, Clerk, Neon DB, Vercel

- Full-stack AI app enabling real-time doctor consultation via voice interaction.
- Accepts symptoms, generates AI doctor responses, and conducts full sessions via Vapi AI + Google Gemini.
- Automatically generates medical reports with medication, diagnosis, doctor info, date/time, and precautions.
- Features voice-to-text, symptom recognition, report history, and user dashboard.
- Built with Clerk Auth, Neon DB, and deployed on Vercel with modern responsive UI.

### BUDDY CHAT | FULLSTACK CHAT & VIDEO CALL (2024)

[GitHub](#) | [Live Demo](#)

*Technologies:* React.js, Tailwind CSS, TanStack Query, Node.js, Express.js, MongoDB, Stream SDK, Zustand, Render

- **Real-time Messaging:** Typing indicators, emoji reactions, file sharing, secure chat, and friend requests.
- **Video Calling:** One-on-one and group video calls with screen sharing and call recording.
- **Authentication:** JWT-based login, protected routes, session control.
- **UI Customization:** Offers 32 unique themes for language exchange personalization.
- Uses Zustand for state management and MongoDB Atlas for cloud data.
- Full error handling and deployed on Render, compatible with Vercel Railway.

### ONLINE BOOK-STORE | ECOMMERCE (2024)

[GitHub](#) | [Live Demo](#)

*Technologies:* React.js, MongoDB, Tailwind CSS (Vite), Express.js, Node.js, Render

- **User Features:** Browse books by price/rating, add to cart/favorites, place orders, authentication.
- **Admin Features:** Dashboard access to add, update, delete books and manage orders.
- Full-stack MERN project with clean UI, scalable routing, and secure REST API integration.
- Responsive frontend using Tailwind and React with deployed backend on Render.

## SKILLS

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**Languages:** C++, Python, JavaScript, TypeScript .

**Frontend:** React.js, Next.js, Tailwind CSS, Vite, HTML5, CSS3, Bootstrap, Shadcn UI .

**Backend:** Node.js, Express.js, REST APIs .

**Databases:** MongoDB, MySQL, NeonDB (PostgreSQL basics), Firebase Authentication.

**Concepts:** Object-Oriented Programming (OOP), DBMS, Data Structures and Algorithms (C++).

**Tools & Platforms:** VS Code, Git, GitHub, Postman, Clerk, Vapi.ai, Stream SDK, Zustand, Render, Vercel.

## INTERNSHIP-EQUIVALENT EXPERIENCE

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### **Independent Full-Stack Developer (2024–Present)**

Actively built and deployed real-world, production-grade AI applications that simulate the responsibilities of an actual intern:

- Designed and developed full-stack applications using Next.js , React.js , Node.js, Express, and MongoDB.
- Built RESTful APIs and integrated third-party services like Google Gemini, Firebase, Vapi AI, and Stream SDK.
- Used tools like GitHub, Postman, Render, and Vercel for version control and deployment.
- Implemented secure authentication and real-time features like video calling, messaging, and AI voice interfaces.

## COMPETITIVE PROGRAMMING

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- Solved over **200+ problems on LeetCode (C++)**: [LeetCode Profile](#)
- Solved **460+ problems on GeeksforGeeks**: [GFG Profile](#)
- Strong understanding of data structures, algorithms, and problem-solving techniques.
- Registered for Adobe Hackathon 2025 – building a real-world solution (in progress).

## ACHIEVEMENTS AND CERTIFICATIONS

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- **Complete Web Development** (Udemy): Elite Certification
- **Data Structures and Algorithms in C++** (GeeksforGeeks)