

# Midhun Chakkaravarthy K

Portfolio [↗](#) - LinkedIn [↗](#) - GitHub [↗](#)

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## EDUCATION

- **Coimbatore Institute of Technology** Coimbatore, India  
*Master of Science in Software Systems; GPA: 8.43/10.0* *July 2019 - May 2024*

## EXPERIENCE

- **Sayvai Software** Coimbatore, India  
*Full Stack Developer* *Jun 2024 - Present*
  - **Tech Stack:** Next.js, Supabase, FastAPI, Tailwind CSS, SQLAlchemy's Alembic, Livekit.
  - **Voicebot Dashboard:** Engineered a client-facing dashboard for voice bot configuration, focusing on STT, TTS, and LLM settings. Designed and implemented the backend infrastructure, efficiently managing data, and integrated Livekit to facilitate real-time communication with the Voicebot model via WebRTC.
  - **CMS:** Engaged in building websites for clients with a primary focus on integrating advanced voice bot and chatbot models. This enables seamless user interaction through voice and text, enhancing engagement and automating customer support. Additionally, built a content management system (CMS) to allow the client to manage and update website content easily, ensuring smooth control over the site's functionality while maintaining a user-friendly design.
- **Smartail Private Limited** Chennai, India  
*Product Engineer Intern* *Dec 2023 - May 2024*
  - **Tech Stack:** Angular, Java Spring Boot, RESTful API, MongoDB, Docker, Kafka.
  - **Admin Login Enhancement:** Revamped the admin login system by restructuring existing components and creating new ones, efficiently managing over 100+ schools and 65K+ students.
  - **Production Release & Bug Fixes:** Orchestrated a major production release, incorporating new features and resolving over 30 bugs in 6 months across 10+ UI components.
- **Smartail Private Limited** Chennai, India  
*Product Engineer Intern* *Jun 2022 - Dec 2022*
  - **AI-powered Image Extraction:** Implemented an AI-powered image extraction mechanism, reducing image processing and report generation time significantly. Utilized advanced image processing techniques for accurate extraction of questions from images, surpassing manual methods.
  - **UI Features & Bug Fixes:** Engineered various UI features and APIs, improving integration and addressing bugs.

## PROJECTS

- **Event Hub** [🔗](#)  
*Platform for online events announcements and discussions.*
  - **Tech Stack:** ReactJS, Firebase, JQuery.
  - **Event Discovery:** Created a platform that facilitates the discovery of online events, enhancing user engagement in webinars and workshops.
  - **Discussion Forum:** Developed an interactive chat service to foster community engagement and discussions.
  - **Highlights:** Spearheaded the creation of a user-centric platform that harmonized online event posting and sharing, enhancing an upswing in user interaction and robust participation levels, ultimately enriching the overall event experience.
- **Chat App**  
*This project focuses on creating a dynamic chat platform that facilitates real-time communication among users.*
  - **Tech Stack:** MERN (MongoDB, Express.js, React, Node.js), WebSockets, Tailwind CSS.
  - **Communication Features:** The application enables users to create groups, find online users, and engage in one-on-one or group chats, fostering seamless communications.
  - **Message History:** Implemented a persistent message history feature, allowing users to access past conversations even after logging out or refreshing the app.

## SKILLS

- **Languages:** C, Java, Python, JavaScript, TypeScript, SQL.
- **Frameworks & Libraries:** Angular, React, Next.js, Node.js, Express, Spring Boot, Tailwind CSS.
- **Databases:** PostgreSQL, MySQL, Supabase.
- **Tools:** Git, SQLAlchemy, Alembic, Docker, Livekit, Kafka.
- **Core:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Programming.
- **Soft Skills:** Leadership, Event Management, Public Speaking.

## EXTRA-CURRICULAR

- **Certification:** Completed the Operating System course on NPTEL [↗](#) and attended a ReactJS Bootcamp.
- **Hackathon Achievements:** Ranked in the top 10 in the Mitsubishi Hackathon [↗](#) and secured 1st place in the Melinia Hackathon [↗](#).
- **Bootcamp Leadership:** Conducted a Full-Stack Development workshop [↗](#). and organized an Angular Bootcamp through the FOSS club at CIT [↗](#).
- **Leadership Roles:** Served as Student Internship Coordinator at CIT and was a School Pupil Leader during Higher Secondary education.