

Midhun Chakkaravarthy K

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

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EDUCATION

- **Coimbatore Institute of Technology** Coimbatore, India
Master of Science in Software Systems; GPA: 8.71/10.0 *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 with 3 main configurations that includes STT, TTS and LLM configurations.
 - **Backend Development:** Designed and implemented the backend infrastructure with **FastAPI** and managed data using **Supabase**.
 - **Database Schema Management:** Applied **SQLAlchemy's Alembic** for efficient database schema migrations and management.
 - **Livekit Integration:** Integrated and developed a UI component for **Livekit** to facilitate real-time communication with the Voicebot model via WebRTC.
- **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.
 - **Positives:** Spearheaded the creation of a user-centric platform that harmonized online event posting and sharing, catalyzing an upswing in user interaction and robust participation levels, ultimately enriching the overall event experience.
- **Alumni Portal**
It is an ongoing project aimed at bridging the gap between alumni and the college via channels.
 - **Tech Stack:** Next.js, Java Spring Boot, RESTful API, MongoDB, Docker, Kafka
 - **Communication Channels:** Currently involved in a web project focused on developing an alumni portal, fostering connections between alumni and their respective colleges through community features and private communication channels.
 - **Multiple Access:** Continuously contributing to the enhancement and maintenance of the web project, ensuring the seamless functionality of the alumni portal and it's open community platform for networking across multiple colleges.

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:** Organized and led 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.