

Sarthak Krishak

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TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C.
Frameworks and Libraries: NextJs, ReactJs, Node.js, Express, Tailwind, Flask.
Database: SQL(Postgres), MongoDB, Redis.
Developer Tools: Git, Docker, AWS, Github.
Other Skills: REST APIs, WebSockets, CI/CD.

EDUCATION

VIT Vellore

Bachelor of Technology in Electronics and Communication Engineering.

TamilNadu

Sep. 2022 – Sep 2026

PROJECTS

VITI CARE | *Firebase, Typescript, Flutter, WebSocket, Bootstrap*

Jan 2024 – Feb 2024

- Spearheaded the development of a comprehensive Hostel Management and Problem-Solving app using **Firestore**, **TypeScript**, **Flutter**, and **WebSockets** during a hackathon at VIT Chennai.
- Implemented real-time communication features via WebSockets, ensuring instant updates for room cleaning and laundry management tasks.
- Built an admin portal for wardens, enhancing daily management tasks and improving overall operational efficiency.

VOICE BOT | *Python, OpenAI, SpeechRecognition*

Nov 2023 – Dec 2023

- Developed a Voice Bot in a Samsung hackathon using Python to enhance user interaction through voice commands
- Integrated Python libraries including **openai**, **speech recognition**, **webbrowser**, and **wikipediaapi** to enable functionalities such as voice recognition, text-to-speech, web navigation, information retrieval from Wikipedia, and conversational AI.
- Designed the bot to efficiently perform tasks such as opening applications, providing date and time, and navigating the web, improving user accessibility and convenience.
- Code - github.com

ROAD HAZARD MITIGATION SYSTEM | *JavaScript, Python, OpenCV, Flutter*

Aug 2023 – Oct 2023

- Developed and pitched a Driver Safety System at Smart India Hackathon 2023, targeting the reduction of drowsiness-related accidents.
- Implemented a two-stage protection mechanism using JavaScript and Python for detecting driver drowsiness.
- Utilized OpenCV for real-time monitoring, ensuring accurate detection and timely alerts.

CSED OFFICIAL WEBSITE | *JavaScript, Tailwind CSS, GSAP, JQuery, SwiperJs*

May 2024 – Jun 2024

- Developed the official website for the CSED club.
- Created a platform to showcase the club's activities, events, and resources.
- Utilized JavaScript Libraries like **Vanta Js**, **Swiper Js** for animating content and Tailwind for styling
- Enhanced the club's online presence and engagement with members and visitors.
- Link - csedvit.com

EXPERIENCE

Front-End Developer

Jan 2024 – Present

CSED CLUB

VIT Vellore

- Developed the official CSED Club website, improving member engagement by 30.
- Utilized JavaScript and Tailwind CSS to create a responsive and interactive platform.
- Utilized JavaScript and Tailwind CSS to create a responsive and interactive platform.

Full-Stack developer

Sep. 2018 – Present

SMART INDIA HACKATHON 2023

VIT Vellore

- Designed and developed a Driver Safety System focused on reducing drowsiness-related accidents.
- Implemented a two-stage protection mechanism to accurately detect drowsiness and alert drivers.
- Enhanced overall driver safety through timely and actionable alerts, aiming to prevent potential accidents.