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<https://mahsook.tech/>

EMBEDDED SYSTEMS ENGINEER

Highly skilled in leveraging the power of the MERN stack—MongoDB, Express.js, React.js, and Node.js—to design and develop robust, high-performance applications. With a solid foundation in programming languages such as JavaScript, Python and C/C++, I bring a diverse toolkit to tailor solutions to specific project requirements. Specializing in front-end development using HTML, CSS, and JavaScript, I craft engaging and responsive user interfaces, ensuring a seamless and visually appealing user experience across platforms. Proficient across the entire software development life cycle, I contribute from conceptualization to deployment, delivering versatile and efficient solutions in alignment with the latest industry standards.

CORE COMPETENCIES

Software Development • Web Development • Design • Problem Solving • IoT Expertise • Data Structures and Algorithms • Team Collaboration • Project Management • Cloud Computing • Technical Communication • Innovation • Technical Proficiency

EXPERIENCE

11/2022-
Present

NearTreat

Co-Founder and CEO

Co-founded NearTreat, a Web application designed to address the problem of locating street food vendors and enhancing the street food experience.

Developed the vision and strategy for the company, leading a team to create a unique platform that offers live location tracking and real-time availability of street food recipes.

Addressed the challenge of street food vendors' dynamic locations by implementing a two-login system for sellers and buyers, allowing sellers to update their location and menu while enabling buyers to easily find their favorite street vendors and available dishes.

Identified a significant gap in the market and positioned NearTreat as a dedicated platform for street vendors and customers who love street food.

Pioneered live location tracking and real-time recipe availability, establishing NearTreat as the first of its kind in the market.

Aimed to build a vibrant community of street food enthusiasts by providing a convenient way to find and enjoy their favorite street vendors.

<https://neartreat.in/>

6/2023-
7/2023

The Better Tomorrow

MERN Stack

During my internship at The Better Tomorrow, a prominent web development company, I gained hands-on experience working with the MERN stack. I actively contributed to front-end development using HTML, CSS, JavaScript and React JS. Additionally, I gained expertise in back-end development using Node JS, express JS

EDUCATION

SRI ESHWAR COLLEGE OF ENGINEERING

2021-2025

Bachelors in Electronics and Communication Engineering

CGPA: 7.7

L.K. Higher Secondary School

2019-2021

Standard - 10th (SSLC) **Percentage:** 87%

Standard - 12th (HSC) **Percentage:** 82%

TECHNICAL SKILLS

- Embedded Systems: C/C++ and Embedded C
- Frontend Development: HTML, CSS, JavaScript
- Backend Development: JavaScript, Python, C/C++, Firebase, SQL
- Tech Stack: MERN (MongoDB, Express.js, React.js, Node.js)
- Databases: MongoDB, Firebase
- Cloud: AWS, GCD
- Other Tools: VS Code, Arduino IDE, GitHub, PyCharm, Canva, Netlify, Vercel

CERTIFICATIONS

- Developing Chatbots with Azure | 2023 | LinkedIn
- Cloud Computing | 2023 | NPTEL
- AI For India 2.0 | August 2023 | GI-JVI Geek Networks, IITM Research Park
- The Joy of Computing Using Python | 2022 | NPTEL
- Data Science Foundation – Level 1 | 2022 | IBM
- Mastering Data Structures & Algorithms using C and C++ | 2022 | Udemy
- SQL - Standard | 2022 | Skillrack
- Introduction to IoT | 2022 | Cisco
- Crash Course on Python | 2022 | Coursera
- Diploma in Python with Data Science and Machine Learning | 2021 | Udemy
- Python | 2021 | HackerRank | GUVI

PROJECTS

Smart Ambulance control system

- Domain: Embedded and IoT
- Role: Project Lead
- Designed and implemented a sophisticated traffic control system for optimizing ambulance routes in healthcare. The system leveraged IoT devices, cloud technology, and GPS tracking to gather real-time traffic data and prioritize ambulance movements.
- Key responsibilities and achievements:
 - Collaborated with cross-functional teams and stakeholders to develop a user-friendly interface for monitoring and controlling ambulance dispatch.
 - Utilized IoT technology and cloud resources to gather and analyze data from various sources, including traffic sensors and ambulance GPS devices.
 - Dynamically adjusted ambulance routes to minimize response times, ultimately improving patient outcomes and emergency response efficiency.

Automatic Drug Dispenser - Bridging the gap between street food vendors and food lovers.

- Domain: Embedded and IoT
- Role: Project Lead
- Utilized technologies:
 - Hardware:
 - ESP32-CAM: Microcontroller with camera for QR code scanning
 - ESP8266: Microcontroller for Wi-Fi connectivity
 - Servo motor: Controls medicine dispensing mechanism
 - Software:
 - Frontend (React): User interface for scanning prescriptions and receiving instructions

- Backend (Node.js, Express, MongoDB): Processes QR code data, verifies prescriptions, manages inventory, and communicates with hardware
- This project developed a QR code-based drug dispensing system using a combination of embedded systems and web technologies. Patients scan their prescription QR code through a user-friendly interface, triggering the system to verify the medication and dispense it safely through a servo-controlled mechanism. Key responsibilities and achievements:

NearTreat - Bridging the gap between street food vendors and food lovers.

- Domain: Web Application
- Utilized technologies: React JS, Node JS, Express JS, MongoDB, Map Box, Open Street Map, Razorpay
- Role: Co-founder and CEO
- Developed and led a team to create the NearTreat Web application, a revolutionary solution addressing the challenge of locating street food vendors. The app provides live location tracking and real-time availability of street food recipes, enhancing the street food experience for both sellers and buyers.
- Key responsibilities and achievements:
 - Led the project from inception to successful deployment, ensuring it met the unique needs of street vendors and customers.
 - Designed and implemented the two-login system, allowing sellers to update their location and menu, while enabling buyers to easily discover nearby street stalls and available dishes.
 - Addressed the dynamic nature of street vendors' locations and visibility by providing a dedicated platform for their services.
 - Pioneered live location tracking and real-time recipe availability in the market, positioning NearTreat as the first of its kind.
 - Worked towards creating a thriving community of street food enthusiasts who can easily find and enjoy their favorite street vendors.
 - www.neartreat.in

ACHIEVEMENTS

- 1st Runner-Up at Ideathon with a ₹50,000 Cash Prize**
 - Secured the 1st Runner-Up position and received a ₹50,000 cash prize at Ideathon, hosted by Cloud Analogy in Haryana. Demonstrated exceptional problem-solving and innovative thinking.
- First Runner-Up and Grand Prize Winner at Pitch Fest 2023**
 - Achieved the 1st Runner-Up position and was awarded a cash prize of ₹15,000 at Pitch Fest 2023 held at Sri Eshwar College of Engineering. Presented a compelling business idea and demonstrated effective communication and pitching skills, earning top honours.
- Agent of Change in Tech - Tech for Good Hackathon**
 - Awarded with the title of "Agent of Change in Tech" for outstanding contributions at the Tech for Good Hackathon organized by Google Developers Group Coimbatore. Recognized for innovative ideas and impactful initiatives in the tech industry.
- TNSI EDII-TN Ideation Camp**
 - Recognized for innovative ideas and selected as a participant for the TNSI EDII-TN Ideation Camp, fostering entrepreneurial thinking and problem-solving skills. Demonstrated creativity and entrepreneurial potential.
- DevHack 2023**
 - Advanced to the finals of DevHack 2023, a prestigious competition organized by Startup TN in partnership with Thiagarajar College of Engineering, Maxelerator Foundation, Young Indians Madurai, and Google Developers Group. Showcased exceptional technical skills and innovative thinking.
- Mini Project Expo 2023**
 - Secured the second prize in the Mini Project Expo held at Sri Eshwar College of Engineering. Demonstrated outstanding project implementation, technical proficiency, and effective

presentation abilities, showcasing the ability to develop and present innovative ideas in a competitive environment.

7. The Pitch 2023

- Achieved a semi-finalist position in The Pitch 2023, held as part of the 15th edition of Coimbatore Vizha, organized by Startup TN. Presented a compelling business idea, demonstrating effective communication and pitching skills to a panel of industry experts and investors.

8. Gold Badge for Python

- Received a Gold Badge from HackerRank, recognizing exceptional proficiency in Python programming. Demonstrated advanced problem-solving skills and expertise in Python language features.

9. SECE Internal Hackathon 2022

- Reached the finale of the Internal Hackathon conducted by Sri Eshwar College of Engineering. Showcased innovative problem-solving skills and collaborated effectively with a team in developing a cutting-edge solution within a limited timeframe.

10. MEDICNIK at Karpagam Academy of Higher Education

- Awarded a consolation prize in MEDICNIK, a national-level technical symposium, for presenting a solution that demonstrated technical competence and effective presentation skills. The solution showcased innovative ideas and practical implementation in the medical domain.