Mohamed Shaik Mahsook

Coimbatore, Tamilnadu

mahsook.m.a@gmail.com; +91 8189851258

https://mahsook.tech/

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 • Data Structures and Algorithms • Team Collaboration • Project Management • Cloud Computing • Technical Communication • Innovation • Technical Proficiency • IoT Expertise • Embedded System

EXPERIENCE

11/2023- 12/2023	**Artiwiz Technologies** **Embedded and IoT system design Intern** During this intership I get chance to work on STM32 microcontroller and got hands on experience in IoT system design. Independently designed and built a prototype Embedded system using STM32, demonstrating my ability to apply theoretical concepts to practical applications.
6/2023- 7/2023	**The Better Tomorrow** **MERN Stack Intern** 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

PROJECTS

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

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 – QR Code based Dispenser for Medicine

- **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:

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, React JS
- Backend Development: JavaScript, Python, C/C++, Firebase, SQL
- Tech Stack: MERN (MongoDB, Express.js, React.js, Node.js)
- Databases: MongoDB, Firebase
- Cloud: AWS,GCP
- Other Tools: Arduino IDE, STM32CubeIDE, VS Code, 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

ACHIEVEMENTS

1. **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.
2. **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.
3. **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.
4. **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.
5. **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.
6. **Mini Project Expo 2023**
   - Secured the second prize in the Mini Project Expo held at Sri Eshwar College of Engineering.
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.