

Mohamed Sanib

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Skills

Languages: C, C++, JAVA, Javascript

Frameworks and Tools: React.js, Node.js, Next.js, Mongoose, Express, Firebase

Technical Skills: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems

Hackathons

ConxQuest - Gamified Learning Website (Team Project) Dec 2024

- **Hackathon:** Smart India Hackathon 2024
- **Technologies Used:** React, Tailwind CSS, Framer Motion, HTML5 Canvas, Botpress
- Designed a navigable map with interactive NPCs and educational mini-games, promoting level-based progression and enhancing user engagement.
- Integrated an AI-powered chatbot, fine-tuned on Constitution-related queries, achieving a 90% response accuracy.
- Developed with React, Framer Motion, and Tailwind CSS for smooth animations and a responsive UI.
- GitHub Link

Automatic Attendance System using BLE & Computer Vision (Team Project) March 2025

- **Hackathon:** LPU Hackathon 2025
- **Technologies Used:** ESP32 (C), BLE, OpenCV (Python), Node.js, Express, MongoDB, React.js
- Developed a smart attendance system leveraging Bluetooth Low Energy (BLE) and headcount detection.
- Used ESP32 (C) for BLE scanning, filtering signals using RSSI, and eliminating duplicates with Set & Queue.
- Implemented BLE advertising via nRF Connect App, generating a unique UID for identification.
- Designed the backend (Node.js, Express, MongoDB) to process attendance data securely.
- Created an interactive frontend (React.js) for real-time attendance monitoring.
- Integrated OpenCV (Python) for headcount detection through a surveillance camera.
- GitHub Link

Projects

Peer-to-Peer Video Calling Web Application Nov 2024

- **Technologies Used:** WebRTC, Agora RTM API, Google STUN Server, HTML, CSS, JavaScript
- Developed a peer-to-peer video calling application leveraging WebRTC for real-time video and audio communication.
- Utilized Google STUN server for NAT traversal and public IP discovery.
- Integrated Agora RTM for efficient signaling and seamless interaction between users.
- Implemented data transfer using UDP for fast and lightweight communication between peers.
- Ensured secure communication using WebRTC's built-in DTLS and SRTP encryption protocols.
- GitHub Link

URL Shortener – Link Management System March 2025

- **Technologies Used:** Next.js, Tailwind CSS, MongoDB
- URL shortener enabling users to shorten links and track usage statistics.
- Optimized hashing algorithms for efficient and collision-free URL generation.
- Designed the system using a class-based object structure, ensuring modularity, maintainability, and scalability.

- [GitHub Link](#)

Certifications

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| • Server side JavaScript with Node.js Coursera | May 11, 2024 |
| • Generative AI with Large Language Models Coursera | April 3, 2024 |

Education

Lovely Professional University, India, BTech in Computer Science CGPA: 7.84	2022 – 2026
PKMMHSS Edaricode,kerala NCERT (Class XII) Aggregate: 98%	2021 – 2022
PKMMHSS Edaricode,kerala SCERT (Class X) Aggregate: 95%	2019 – 2020