LAKSHYA SINGH

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Education

University Of Mumbai   **2022 − 2026**
Bachelor of Engineering in Computer Science Engineering   *CGPA: 8.5 (Till 5th Semester)*

Relevant Coursework

- Data Structures
- Algorithms
- Operating Systems
- Computer Networks
- DBMS
- Artificial Intelligence
- Software Engineering
- Theory Of Computation

Experience

Jr. Secretary   **November 2024 − January 2025**
OWASP TCET   *Mumbai, Maharashtra*

- Served as Junior Secretary, representing OWASP TCET, managing college-related matters, and facilitating events.
- Coordinated with college faculty and club members to organize workshops, meetings, and tech talks, enhancing club visibility.
- Managed documentation and communication within the club, ensuring efficient dissemination of information and updates.

Projects

Decentralized NFT Trading Communication Platform | *Solidity, Ether.js, Node.js, Socket.io, Hardhat*

- Developed a blockchain-based platform where NFT holders can securely connect and engage in conversations.
- Integrated wallet connection functionality to verify NFT ownership and grant access to exclusive channels.
- Implemented real-time communication using Socket.io, ensuring seamless participant interaction.
- Built NFT trading channels directly within the platform, allowing users to buy, sell, and trade NFTs.
- Impact: Enhanced utility of NFTs through secure, decentralized communication, fostering exclusive community interaction.

DankTube | *Socket.io, Node.js, WebSocket, ReactJs,*

- Built a **full-stack YouTube clone** with core features such as **video uploads**, **playback**, **comments**, and **likes**, providing an intuitive and responsive user experience.
- Implemented **real-time chat** and **notifications** using **Socket.io**, enhancing user engagement and interactivity.
- Integrated **FFmpeg** for efficient video processing, including compression and format conversion to optimize performance.
- Designed a **scalable backend** with **Node.js**, **Express.js**, and **MongoDB**, ensuring seamless data management and API efficiency.

BookOfRecords | *Node.js, Express.js, MongoDB, EJS, REST APIs*

- Engineered a full-stack CRUD application for comprehensive digital record management, providing an intuitive interface for users to add, update, view, and delete records.
- Used EJS for server-side rendering to create a smooth, interactive front-end experience.
- Designed and implemented RESTful APIs to enable seamless data communication between the frontend and backend, ensuring fast, reliable data transactions.
- Impact: Streamlines the management of personal or organizational records, making it suitable for companies or individuals needing an efficient, organized system for large datasets.

ChatterLive | *Node.js, Express.js, JavaScript, WebRTC, Tailwind CSS*

- Built a real-time video chat platform using WebRTC, enabling users to communicate seamlessly over high-quality peer-to-peer video calls.
- Designed the backend with Express.js to handle routing and signalling, ensuring fast and responsive connection establishment between users.
- Optimized the user interface with Tailwind CSS, providing a sleek, fully responsive experience across devices, tailored for ease of use during video sessions.
- Impact: This app provides a smooth, real-time video interaction experience, making it ideal for social interactions, virtual meetings, or tutoring sessions without the need for any downloads or plugins.

Programming Skills

- **Languages:** Java, JavaScript, TypeScript, Rust

- **Databases:** MongoDB, PostgreSQL

- **Tools & Frameworks:** Git, Docker, NextJs, ExpressJs, Ethers.Js, Web3.js

- **Platforms & Environments:** Linux, AWS, Google cloud platform