

TUSHAR MANGLA

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LinkedIn

GitHub

Education

Vivekananda Institute of Professional Studies

Delhi

Master of Computer Applications

2023-2025

J.C Bose University of Science and Technology, YMCA

Faridabad, Haryana

Bachelor in Computer Applications

2020-2023

Experience

Full Stack Developer Intern

March 2024 – August 2024

IIT Delhi

Delhi, India

- Developed a Centralized Parent Application for all Applications under CSC Bal Vidyalaya Program
- Key Features: Centralized Authentication, Single Device Login, Responsive UI
- Utilized React Native and Firebase to create a user-friendly and responsive Mobile Application

Technical Skills

Languages: JavaScript, C++, Java

Frontend: React.js, Redux, React Native, HTML5, CSS3

Backend: Node.js, Express.js, RESTful APIs

Databases: MongoDB, Firebase, PostgreSQL (familiar)

Cloud Services: AWS (familiar)

Blockchain: Solidity, Web3.js, Ethers.js, Smart Contracts

Core CS: Data Structures and Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming

Projects

Centralized Parent Application | React Native, Firebase, OAuth

- Developed a mobile application that unified multiple child-focused educational apps under the CSC Bal Vidyalaya Program, providing a centralized platform for users.
- Implemented a secure authentication system with Single Sign-On (SSO), OTP verification, and Google OAuth integration, enhancing security and user experience.
- Utilized React Native for cross-platform development, ensuring consistent performance and UI/UX across iOS and Android, while reducing development and maintenance costs.

Decentralized Voting Application | React.js, Solidity

GitHub Link

- Developed a blockchain-based voting system using Ethereum smart contracts, ensuring secure, transparent, and tamper-proof elections with real-time interaction between the React.js frontend and Ethereum via Web3.js.
- Utilized Ganache for local testing and secure voter authentication, allowing users to register, vote, and track election results seamlessly on the blockchain.

Music Player Application | React.js, Spotify API

GitHub Link

- Developed a music player application using the Spotify API, allowing users to search for songs, albums, and artists, and interact with the platform in real time.
- Implemented comprehensive playback controls and a dynamic browsing feature using the Spotify API, enhancing user interaction.

Web Highlight Sync Tool | React.js, Node.js, MongoDB

In Progress

- Developing a Chrome extension that enables text highlighting and synchronization with a React app, ensuring seamless management via a RESTful backend.
- Designing the React app to provide users with an organized platform to view, categorize, and search through stored highlights.

Achievements

- Contributed to the development of the college's alumni portal as part of the Web Development Team.
- Solved over 150+ data structures and algorithms questions on various coding platforms.