

Vaibhav Barala

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Education

IIT ISM

Bachelor of Technology in Environmental Engineering (GPA:8.1 / 10.00)

Expected May 2026

Dhanbad, Jharkhand

- **Relevant Coursework:** Data Structures and Algorithms (C++), , Intro to CS II (C++), OOPS.

Projects

Real Estate App | Reactjs, Nodejs, Prisma, MongoDB, Expressjs

- Designed and developed a highly responsive real estate web application using Reactjs for dynamic front-end user experiences.
- Engineered a robust database management system using MongoDB and Prisma, achieving a 40% increase in query speed and enabling seamless real-time property listings and search functionality for over 1,000 active users.
- Implemented a real-time chat feature using WebSocket and Socket.io, enhancing user engagement and reducing response time by 20%.

Tripplanner App | Reactjs, Firebase, Google Gemini API.

- Unified Platform: Developed a TripPlanner web app using ReactJS for a responsive interface and Gemini API for comprehensive travel data, offering features like personalized trip recommendations, interactive maps, and detailed destination information.
- User Assistance: Implemented features that help users efficiently plan their trips by providing tailored itineraries, alerts for travel updates, and easy access to booking options, ensuring a stress-free travel experience.

SecureSteps | Reactjs, MongoDB, Leaflet API, ExpressJS, Websockets

- Architected a full-stack web application for real-time emergency location sharing using ReactJS for the front-end, Node.js with Express.js for the back-end, and WebSockets for persistent, unidirectional communication.
- Implemented location tracking and sharing functionalities, enabling users to send their real-time coordinates to law enforcement and family members during emergencies.
- Integrated Twilio's API for sending SMS alerts with critical location information to designated contacts, ensuring immediate notification.

Technical Skills

Languages: C++ , C , Javascript , Python , Typescript

Technologies: ReactJs , Nodejs , Expressjs , Websockets , Prisma , MongoDB, Tailwind , Bootstrap , MySQL

Concepts: API , Database , OOPS , DSA

Achievements

- Cleared First Round of NSEP 2021.
- Cleared the Aptitude test of Kishore Vigyan Protsahan Yojna.
- Cleared First Round of Flipkart GRID 5.0.
- Revived the Society of Environmental Engineering with my Batchmates.
- 1200+ Rating at Codeforces.

Social Engagements

President: Of Society of environmental Engineering and Science, IIT Dhanbad

Club Member : at CYBER LABS -tech society of IIT Dhanbad

Volunteer: at KARTAVYA - NGO run by students of IIT Dhanbad to educate underprivileged childrens.

Organisor:Concetto'24 (Tech-fest) .

Sports-Engagements: Badminton(state-level) , , cricket.