

VAIBHAV SINGH

Bhusawal, Maharashtra

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Education

Indian Institute of Information Technology Bhopal

2020 - 2024

Bachelor of Technology in Electronics and Communication Engineering, CGPA-8.32

Bhopal, Madhya Pradesh

Macro Vision Academy

2019 - 2020

H.S.S.C Physics Chemistry Maths. Percentage- 91.40

Burhanpur, Madhya Pradesh

Technical Subjects

- Database Management
- Operating System
- OOPS.
- Computer Networks

Projects

Codify | ReactJs, NodeJs, ExpressJs, Socket.io, CodeMirror

September 2023

- Developed a real-time collaborative code editor utilizing web sockets, allowing multiple users to join a shared room and edit code simultaneously.
- Engineered the implementation of React.js for front-end development, Express.js for backend server management, and Socket.io for real-time communication, elevating system performance and enabling efficient client-server interactions.
- Utilized CodeMirror for the code editor component, providing syntax highlighting and code editing functionalities.
- Implemented user authentication and avatar display using React Avatar, enhancing the collaborative experience and user interaction within the platform.

Payment-Application | ReactJs, Nodejs, express.js, MongoDB, Docker, JWT, zod, axios

February 2024

- Spearheaded the development of a dynamic payment application, enabling user registration, authentication, and seamless navigation through an intuitive dashboard.
- Integrated essential dependencies such as Express.js, CORS, and JSON Web Token for robust server-side operations, ensuring secure communication and data transfer.
- Employed MongoDB as the primary database management system, leveraging Mongoose for streamlined data modeling and interaction.
- Orchestrated local MongoDB instances via Docker, optimizing database management and facilitating consistent development environments.

React Color App | ReactJs, MaterialUI, JSS, ChromaJS

January 2023

- Fostered a Revitalize color palette application using React, showcasing proficiency in React ecosystem and component based architecture.
- Utilized Material-UI library, for including more than 6 core components like icons, and styling, to enhance the user interface and provide a modern design aesthetic.
- Integrated 5+ popular third-party packages such as Chroma.js, rc-slider, and react-transition-group to implement advanced color manipulation, interactive sliders, and smooth transitions.
- Demonstrated strong proficiency in front-end development tools, including React Router for efficient navigation, React Scripts for project configuration, and React Sortable HOC for drag-and-drop functionality; resulting in a 25% reduction in bounce rate.

Technical Skills

Languages: C/C++, HTML, CSS, JavaScript, SQL, Python

Databases: MySQL, MongoDB

Developer Tools: VS Code, Git, GitHub, Figma, Canva, Excel

Technologies/Frameworks: React, Nextjs, NodeJs, express, GraphQL, Mongoose, RESTful APIs, Docker, Linux/UNIX, CI/CD

Achievements / Extracurricular

- Completed 200+ problems on Leetcode, 100+ on Codeforces, and 50+ on other leading coding platforms.
- Collaborative Research Paper: A team of 4 in publishing a groundbreaking research paper on "Disease Detection using Photonic Sensor and Machine Learning" featured on the IEEE website and I2CACIS2024.

Additional Information

Languages Known: English, Hindi

Hobbies: FPS Gaming, Photography and Editing