

VISHAL VERMA

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Summary

Recent Computer Science graduate with a strong foundation in web development and hands-on experience in front-end and back-end technologies gained through academic projects. Proficient in HTML, CSS, JavaScript, database design, RESTful APIs, and project-based software development. Possesses working knowledge of the Java programming language. Demonstrates strong problem-solving and teamwork skills, with a genuine enthusiasm for learning new technologies and contributing to innovative software solutions.

Skills

Programming Languages: Java, JavaScript, C

Frontend: HTML5, CSS3, React.js, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js

Databases: MongoDB, MySQL

Developer Tools: Git, GitHub, Visual Studio Code

Core Competencies: Problem Solving, Communication, Collaboration

Projects

Tredzo – Zerodha-Style Stock Trading Web Application [Ongoing]

React.js, Material UI, Bootstrap, Node.js, Express.js, MongoDB, Chart.js, Jest

- Built a MERN stack, Zerodha-style trading interface featuring a realistic landing page, interactive watchlists, holdings, positions, funds, and order modules, closely replicating real-world trading workflows.
- Developed RESTful APIs using Express.js and MongoDB with structured schemas for watchlists, holdings, and positions. Implemented simulated buy/sell trade execution and integrated Chart.js portfolio visualizations, including vertical bar and doughnut charts.
- Designed a scalable architecture with modular React components, Jest-tested core logic, and planned cloud deployment on Render, integration of JWT-based authentication and protected routes.

EchoStream – Real-Time Video Calling & Chat Platform

React.js, Vite, Tailwind CSS, Node.js, Express.js, MongoDB, TanStack Query, Stream APIs, WebRTC

- Built a MERN stack global language exchange platform featuring structured onboarding, user profiles, real-time chat, and video calling using a scalable architecture.
- Implemented JWT-based authentication with secure login and signup flows, protected routes, and a friends system to enable trusted user interactions.
- Integrated real-time messaging and low-latency WebRTC video calling. Designed a customizable UI with 32 themes, applied custom React hooks and best practices, tested APIs for reliability, and prepared the application for production deployment.

Spotify Replica – Music Streaming Web Interface

HTML, CSS, JavaScript

- Designed a responsive, Spotify-inspired user interface with media controls, playlist sections, and sidebar navigation.
- Delivered a design closely resembling Spotify's original interface, achieving approximately 95% visual similarity.

Education

Bachelor of Technology (B.Tech.) in Computer Science

S.D. College of Engineering and Technology

Graduated: 2025

Muzaffarnagar, India

Certifications

- **Certified Web Development Course – Apna College (2025):** Completed a full-stack web development certification program, gaining practical experience with core web technologies and frameworks. 
- **C Programming – IIT Kanpur (2021):** Completed a comprehensive C programming course covering fundamental programming concepts and data structures. 