

ANSH SINGH

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EDUCATION

Vellore Institute of Technology, Chennai

B.Tech in Computer Science and Engineering (CSE)

2023 – 2027

PROJECTS

StudyNotion | React, Tailwind, Redux, Node.js, Express, MongoDB, Cloudinary, Razorpay [GitHub](#)

- Designed a full-stack EdTech platform allowing instructors to create, publish, and monetize interactive courses; supported 1000+ simulated daily user interactions.
- Enforced role-based access control with JWT authentication and refined database schemas, boosting API efficiency by 35%.
- Enabled secure Razorpay payment workflows with order lifecycle management and automatic invoice generation.
- Delivered instructor dashboards featuring earnings, enrollment trends, and engagement metrics using Charts.js.
- Crafted reusable, responsive UI components with React and Tailwind, cutting page load time by 20%.

MediConnect | React (Vite), Tailwind, GSAP, Node.js, Express, MongoDB, WebRTC, Socket.IO [GitHub](#)

- Engineered a telemedicine system facilitating real-time doctor–patient consultations with role-specific dashboards for scheduling and clinical interactions.
- Implemented WebRTC-powered video communication with audio, camera, and screen-sharing support, decreasing call initialization latency by 40%.
- Integrated an AI medical assistant using HuggingFace models for basic health queries (85% accuracy).
- Added location-aware hospital and pharmacy discovery using Overpass API and Leaflet.js with live map rendering.
- Strengthened platform security through JWT authorization, encrypted credentials, and notification services via Twilio and Nodemailer.

MetaVote | React.js, Solidity, Hardhat, Ethers.js, MetaMask, Ethereum Blockchain [GitHub](#)

- Created a decentralized voting application delivering transparent, tamper-resistant digital elections through blockchain technology.
- Authored Solidity smart contracts for voter registration, vote casting, and immutable result tallying.
- Enabled wallet-based identity verification through MetaMask for secure participation.
- Connected a React interface to on-chain data using Ethers.js for smooth user interaction.
- Utilized Hardhat for contract testing and deployment to ensure robustness and correctness.

TECHNICAL SKILLS

Languages: C++, C, Python, Java, JavaScript, HTML, CSS

Frontend: React.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, Flask

Databases: MongoDB, MySQL

Tools & Technologies: Git, Postman, JWT, Socket.IO, Razorpay, WebRTC, Cloudinary, Nodemailer, Twilio

Deployments: GitHub, Vercel

CERTIFICATIONS

[JavaScript \(Beginner\)](#) | [DevOps Fundamentals](#) | [Agile & Design Thinking](#) | [SQL](#)

ACHIEVEMENTS

Solved **300+ algorithmic problems** across LeetCode, Codeforces, and CodeChef.

Achieved global ranks of 848 and 944 in LeetCode Biweekly Contests 159 and 162, respectively.