Virat Sirohi

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ABOUT

Proactive B.Tech IT Engineering student passionate about crafting efficient, scalable, and user-focused software solutions. Skilled in Java, Python, and Data Structures & Algorithms, with hands-on experience in web development using MERN. Known for writing clean, maintainable code and solving complex problems with precision.

EDUCATION

IMS Engineering College *October 2023 - October 2027*
B. Tech (IT)

Christu Jyoti Convent Senior Secondary School *April 2021 - April 2022*
Secondary School - 76.5%

Christu Jyoti Convent Senior Secondary School *April 2019 - April 2020*
High School - 85.4%

TECHNICAL SKILLS

- **Programming:** Data Structures and Algorithms, OOPS, DBMS, OS.
- **Languages:** Java, C, Python, JavaScript, HTML, CSS, MySQL.
- **Frameworks:** ReactJS (Library), Node Js, Express, MongoDB Atlas, Tailwind CSS, Bootstrap.
- **Technologies:** Firebase, Gemini, Google Maps API, FastAPI, tflite, Flutter (basic).
- **Skills:** APIs, Web Development, Git, GitHub.

PROJECTS

FaceBeam | Python, Flask, OpenCV, face_recognition, SQLite, Bootstrap September 2025 – October 2025

- Engineered an AI system using Python, OpenCV, and face_recognition to automate attendance via real-time facial recognition, eliminating manual processes and proxy attendance.
- Developed a Flask web application with an SQLite database to manage student details, class timetables, and log attendance accurately by subject and time.
- Designed interactive Admin and Student dashboards using Bootstrap and Chart.js, featuring live status updates, absentee lists, overall attendance percentages, and subject-wise breakdowns.
- **GitHub-FaceBeam**

Collaborative Real-Time Whiteboard | React.js, Node.js, Socket.io, Express, MongoDB December 2025 - January 2026

- Built a real-time multiplayer drawing platform using the MERN Stack and Socket.io, enabling instant synchronization of canvas paths across multiple clients with low latency.
- Engineered a global Undo/Redo system using Stack data structures to manage state history and implemented MongoDB persistence to restore drawings after page refreshes.
- Developed a secure authentication system using JWT and BCrypt, featuring a dynamic dashboard for creating private rooms, joining via ID, and generating shareable invite links.
- Deployed the full-stack application to production using Vercel (Frontend) and Render (Backend), optimizing environment configurations for secure cross-origin communication.
- **GitHub-Whiteboard**