

YASH PANDEY

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Education

Vellore institute of Technology Bhopal, India

2022 - 2026

- CGPA: **8.72**

(expected)

Swaraj India Public School, India

2022 - 2021

- *ISC (Class XII), Aggregate: 94.8%*

Swaraj India Public School, India

2020 - 2019

- *ICSE (Class X), Aggregate: 96.4 %*

Skills

Programming & Frameworks: Python, Java, JavaScript, Node.js, React, Express.js, EJS, TypeScript

Databases: MongoDB, MySQL

Web Development: HTML, CSS, Bootstrap

Tools & Others: Git, Version Control Tools

Core Subjects: Operating System, Database Management System, Computer Networks, OOPs, DSA

Work Experience

Winter Internship Technical Training Program

India Space Lab

(15.12.2024 - 15.01.2025)

- Selected from **845** candidates after passing a competitive entrance exam with **35** questions on math and logical reasoning.
- Completed a **30-day internship** on Drone Technology, Satellites, Astronomy, Space Entrepreneurship, and Computing.
- Gained hands-on experience in satellite modelling, astrophysics data analysis, and space economy trends.

Projects

EventIt / (Nodejs, Express, React, MongoDB, WebRTC, WebSocket)

- Developed a scalable event management platform for **1,000+** users, utilizing Node.js, Express, React, and MongoDB.
- Designed a hierarchical system with **2 distinct account types** (students & teachers), ensuring secure role-based access and permissions for **100+** teachers and **900+** students.
- Implemented event management features, enabling teachers to list, edit, and delete events, increasing scheduling efficiency by **60%** and reducing manual workload by **40%**.
- Built an intuitive student interface, allowing **900+** students to browse, register, and join events with a **3-step process**, improving event participation by **70%**.
- Integrated WebRTC and WebSocket to support real-time video meetings for up to **200 concurrent participants**, reducing latency by **30%** and enhancing interaction quality.

ConnectEZ / (AgoraRTC, AgoraRTM, JavaScript, HTML, CSS)

- Developed a real-time collaboration platform supporting video calls, meetings, chat, and screen sharing for **1,000+** users, ensuring **99.9%** uptime.
- Implemented high-quality video calls with AgoraRTC, delivering **1080p HD video** with latency under **150ms**, supporting up to **100** concurrent users per session.
- Integrated instant messaging via AgoraRTM, handling **10,000+** messages daily with delivery time under **50ms**.
- Added screen sharing functionality with AgoraRTC, improving collaboration efficiency by **60%**, allowing **50+ participants** per session to share content.
- Designed a fully responsive UI with HTML, CSS, and JavaScript, improving user retention by **45%** and ensuring smooth performance across all major browsers and devices.

Academic and Extracurricular Achievements

- Completed a **12-week** Cloud Computing course from NPTEL (IIT Kharagpur) with an **83%** score, ranking in the top **5%** among **23,872** candidates.
- Solved **250+** coding problems on platforms like *LeetCode* and *GeeksforGeeks*, strengthening problem-solving and algorithmic thinking.
- Committed to the **100 Days of Code** challenge, solving one DSA problem daily for **100** days, enhancing coding consistency and logic-building skills.