

Pranjal Tiwari

(+91) 8707806663 | pranjaltwri24@gmail.com | Lucknow, India | LinkedIn | github.com/pranjaltiwari1

TECHNICAL SKILLS

Next.js, React.js, Redux, React Query, Tailwind CSS, CSS, Node.js, Express, MongoDB, SQL, C++, Java, JavaScript, Python, RESTful APIs, Git/GitHub, WebSockets

PROJECTS

2D Metaverse | React.js, Node.js, Socket.io, WebRTC, Redis, Phaser.js *Jan 2025 – Mar 2025*

- Built a 2D web application enabling users to interact in real time via video, audio, and chat across 5+ virtual rooms with up to 30 concurrent users.
- Implemented Socket.io and WebRTC for seamless communication, maintaining latency under 250ms during testing.
- Used Redis and JWT for session management and secure authentication workflows.

Real-Time Collaborative Code Editor | React.js, Node.js, Socket.io, CodeMirror *Mar 2025 – Apr 2025*

- Developed a browser-based editor supporting real-time collaboration among up to 10 users.
- Leveraged WebSockets to achieve 100ms synchronization lag across sessions.
- Integrated CodeMirror for syntax highlighting in 3 programming languages.

Social Media Full Stack App | MERN Stack *Apr 2025 – May 2025*

- Designed a full-stack platform handling 50 users during initial testing, supporting posts, comments, and likes.
- Implemented REST APIs and JWT authentication securing 100% of endpoints.
- Enabled media uploads and retrieval for over 300 pieces of content.

CERTIFICATIONS

The Bits and Bytes of Computer Networking – Google *Dec 2023*

Cloud Computing – NPTEL *May 2024*

Marketing Analytics – NPTEL *May 2025*

EXTRA-CURRICULAR

- **Vice President**, NULL VIT Bhopal Student Chapter – Led cybersecurity initiatives, organizing SECVIT'24 CTF with 300+ participants and 2 workshops.
- **Event Coordinator** – Organized and led 5+ technical and non-technical events during Advitya, the college's flagship annual fest, engaging 700+ students.
- **Sports Coordinator & University Cricket Team Captain** – Captained the university cricket team in 4 tournaments, winning 2 championships including Aaramabh'22 and Advitya'24.

EDUCATION

VIT Bhopal University *Bhopal, India*
Bachelor of Engineering in Computer Science – CGPA: 8.69 *July 2022 – Present*

Jagran Public School (CBSE) *Lucknow, India*
Senior Secondary (12th) – 85.6% *March 2021*

Jagran Public School (CBSE) *Lucknow, India*
High School (10th) – 94% *March 2019*