

Tanpreet

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Professional Summary

Detail-oriented Full Stack Developer with hands-on experience building scalable web applications using the MERN stack. Proven ability to deliver real-time, production-grade systems, for instance, in hackathons, winning one as well. Strong in clean coding and cross-functional teamwork.

Technical Skills

Languages: C, C++, Python, JavaScript, PHP
Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3
Backend: Node.js, Express.js, Flask
Databases: MongoDB, MySQL
Tools: Git, Github, Postman, Razorpay API

Education

BCA, IKGPTU, Punjab
Sept 2022 – May 2025
8.70 CGPA up until 5th Semester

Projects

Code Of War — *Next.js, React.js, MongoDB, Judge0, Socket.io, Flask, Docker, Node.js*

- Link: <https://code-of-war.vercel.app/>
- Developed a gamified coding platform with live code execution, Friendly coding battles using real time party/lobby creation to compete with friends or use it to create local tournaments
- Implemented real-time WebSocket-based communication and scalable backend code execution using Dockerized Judge0, Monaco Editor and python-flask cyclomatic complexity analyzer
- Addressed key limitations in existing platforms faced during our own competitive coding journey, making it interesting by adding some gaming touch to the UI and features, and by enabling customizable contests with friends or hosting tournaments and contests at variable scale possible.

Feedback System — *React.js, Node.js, MySQL, Nodemailer, Chart.js*

- Link: <https://feedback-system-rt.vercel.app/>
- Developed a role-based academic feedback collection and analysis platform for educational institution.
- Implemented a secure, time-bound token system for generating a time-bound feedback form, sent to designated students via email using Nodemailer. Stored the average and weighted (based on student performance) results in relational database and comparing and displayed visually using Chart.js.
- Absence of a good feedback system in our college. Wanted to add more weight to better students. Including all aspects of teaching in form. Easier for students to fill just by rating system.

DisasterSHIELD — *Next.js, Flask, Python ML, MongoDB, Razorpay, Leaflet.js*

- Link: <https://disaster-shield-ten.vercel.app/>
- Engineered a disaster response system; awarded 2nd prize in GNA University hackathon 3.0.
- Integrated ML models for climate-based disaster prediction and donations via Razorpay, chatbot using Google Gemini API and resource mapping using leaflet JS library
- Predicts beforehand to alert authorities, provides assistance using chatbot, locates nearest food, health or shelter resource, and helps with donations for disasters all in one place.

Quick Chat — *Next.js, Socket.io, MongoDB, Tailwind CSS*

Link: <https://quick-chat-eight.vercel.app/> Developed a real-time messaging app using Socket.io for instant communication.

Achievements

Technical Achievements

- 2nd Place – GNA Hackathon 3.0 (National-Level Hackathon)

Extracurricular Achievements

- Gold Medal – 100 Meter & Silver Medal – Long Jump
- Winner – Game Mania (College Gaming Competition)

Languages

English, Hindi (Native), Punjabi (Native)

Core Competencies

Full Stack (MERN) Web Development, REST APIs, Responsive UI, Git, Machine Learning, Socket.io