MANAS KAPOOR

Backend Engineer | Full Stack Developer

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SUMMARY

Computer Science undergraduate at Himachal Pradesh Technical University focused on backend engineering and full-stack web development. Built and deployed the official Chaitanya 2K26 festival website while leading its technical team, led a team to win a tech-fest hackathon of 25 teams, and has solved 300+ LeetCode problems in C++.

EDUCATION

B.Tech, Computer Science and Engineering — Himachal Pradesh Technical University, Hamirpur — Expected 2029

EXPERIENCE

Technical Team Lead & Website Developer — Chaitanya 2K26, HPTU Hamirpur | chaitanyahptu.dev — 2026

- Led the fest's technical team; owned the official website end to end, from build to deployment.
- Helped organize the fest's competitive programming contest.

Web Developer Intern — InAmigos Foundation — Jun 2026 - Jul 2026

- Fixed issues and improved existing pages on the foundation's website during a one-month web development internship.

PROJECTS

Chaitanya 2K26 - HPTU Tech & Cultural Fest Website | *Nuxt 3, Vue 3, Three.js, GSAP* — chaitanyahptu.dev

- Built the official festival website with an interactive 3D (Three.js) hero, presenting 21 events and 2 workshops across five tracks with online team registration.
- Deployed, hosted and integrated the site with backend services; it stayed fast and stable through the three festival days.

EdgeCase - ICPC-Style Competitive Programming Platform | *Next.js, TypeScript, Judge0* — GitHub

- Building an open-source contest platform with a multi-language browser editor, per-participant timers, a live leaderboard and ICPC-style penalty scoring; architecture targets ~10,000 concurrent local users.
- Isolated code execution behind a pluggable judge adapter (Judge0 sandbox), enforced every rule server-side with HMAC-signed sessions, and built an organizer console with CSV export.

CampusPulse - AI-Powered Campus Complaint Management | *Next.js | Hackathon project* — Live

- Built an anonymous campus-issue reporting platform with photo uploads, tracking by unique ticket ID, and admin and super-admin dashboards.
- Added AI analysis that scores each complaint 0-100 by risk, plus a three-tier, 72-hour auto-escalation chain (Teacher, Faculty, Administration).

ROG - Voice-First Desktop AI Assistant | *Electron, TypeScript, Whisper, Zod, Vitest* — GitHub

- Built a wake-word desktop assistant for Windows that opens apps, sites and projects and runs user-taught multi-step workflows, with multilingual support.
- Ran OpenAI Whisper locally on the GPU (~0.3 s, no audio leaves the PC); mapped speech and AI output to a typed action catalog so nothing reaches a shell; 100 unit/integration tests.

ShatranjX - Real-Time Multiplayer Chess | *Node.js, Express, Socket.io, Chess.js* — Live

- Server-authoritative game logic with matchmaking, private rooms and Stockfish AI opponents; deployed on Render.

ACHIEVEMENTS & ACTIVITIES

- **Winner, Tech-Fest Hackathon** — Led the team to first place among 25 participating teams.
- **Hackathon Team Lead** — Led teams at Adobe Hackathon, Colosseum, Mock SIH and Smart India Hackathon activities.
- **Hackathon Participant** — PayPal AI Hackathon, HackerRank Orchestra Hackathon.
- **e-Yantra (IIT Bombay), Participant** — Representing HPTU in the e-Yantra robotics program.
- **LeetCode** — 300+ problems solved in C++; competing in weekly contests.

CERTIFICATIONS

C++ Mastery Workshop — IIT Delhi

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript; Data Structures & Algorithms
Backend: Node.js, Express.js, REST APIs, Socket.io
Frontend: React, Next.js, HTML, CSS, Tailwind CSS, Framer Motion, GSAP, Three.js, React Three Fiber
Databases: MongoDB, PostgreSQL, MySQL
Tools: Git, GitHub, Linux, Vercel, Render