

Mayank Sharma

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SKILLS

- **Languages:** C++, JavaScript, TypeScript, Python, Java
- **Frameworks & Libraries:** Next.js, React.js, Node.js, Express.js, Tailwind CSS, Prisma ORM, Zod
- **Database & Auth:** PostgreSQL, MongoDB, MySQL, JWT, bcrypt, Clerk
- **APIs & Tools:** OpenAI API, SendGrid, Jitsi Meet, Postman, Git, GitHub, Vercel, Netlify
- **Soft Skills:** Problem Solving, Critical Thinking, Communication, Teamwork, Attention to Detail

PROJECTS

- **NexChat — Real-Time Chat Application | [GitHub](#) | [Live](#)** Since Feb '26
 - Developed a production-grade full-stack chat application using **Next.js 15** and **React 19** on the frontend, Node.js/Express on the backend, and PostgreSQL with JWT authentication, bcrypt hashing, and role-based API route protection
 - Engineered a RESTful backend with **15+** endpoints covering auth, friend request lifecycle, and real-time messaging, enforcing server-side friendship validation, Zod input sanitization, and rate limiting
 - Crafted a responsive UI with Tailwind CSS featuring emoji picker, **6-second** polling-based live messaging, unread badges, and Jitsi Meet video calling via auto-generated UUID-based room generation
 - Optimized PostgreSQL schema with UUID keys, composite indexes on message pairs and friend lookups, and deduplication constraints to minimize query overhead across high-frequency polling operations**Tech Stack:** Next.js 15, TypeScript | Node.js, Express | PostgreSQL | JWT, bcrypt, Zod | Tailwind CSS | Jitsi Meet
- **AI Email Automation Platform (SaaS) | [GitHub](#)** Since Jan '26
 - Engineered a full-stack AI-driven email automation platform supporting content generation, personalization, and scheduled delivery across **100+** structured test workflows
 - Structured REST APIs with Clerk-based authentication and refined PostgreSQL schemas via Prisma, cutting redundant database queries by **~30%** through indexing and query tuning
 - Integrated OpenAI services with controlled prompt logic, per-request tone modulation, and context handling, decreasing manual drafting time by **~60%** while preserving structured output consistency
 - Orchestrated asynchronous job scheduling and delivery tracking for scalable transactional email processing, ensuring reliable queue management and fault-tolerant execution across concurrent workflows**Tech Stack:** Node.js, PostgreSQL, Prisma | Next.js, TypeScript | OpenAI API, SendGrid | Clerk

TRAINING

Data Structures and Algorithms – LPU

Jun' 25 – Jul' 26

- Completed structured training covering core Data Structures & Algorithmic paradigms including recursion, sorting, searching, trees, graph traversal, and dynamic programming techniques.
- Applied concepts by building an interactive Sorting Algorithm Visualizer demonstrating step-by-step execution flow and time-complexity behavior of major sorting techniques.
- Practiced writing optimized C++ implementations while analyzing time-space trade-offs using Big-O notation.

Tech stack: C++, Data Structure and Algorithms

CERTIFICATES / CERTIFICATIONS

- Node.js, Frontend Developer (React) - HackerRank - [Link](#) Feb' 26
- Cloud Computing – NPTEL - [Link](#) Nov' 25
- DSA, OOPS, C Programming - Cipher Schools - [Link](#) May' 25

ACHIEVEMENTS

- Solved 300+ algorithmic problems across [LeetCode](#) & [GFG](#) which sharpened overall Problem Solving skills Feb' 26
- Earned 5 stars in C++, 5 stars in Python on [HackerRank](#) Jan' 26

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.56 Aug' 23 – Present
- **Dellmond International School** Saharanpur, UP
Intermediate; Percentage | 80.2 Apr' 22 – Mar' 23
- **Dellmond International School** Saharanpur, UP
Matriculation; Percentage | 71.4 Apr' 20 – Mar' 21