Piyush Raj

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PROFESSIONAL SUMMARY

Full-Stack Developer with experience building scalable web applications using the MERN stack, C++, JavaScript, and SQL. Proficient in developing RESTful APIs, deploying microservices, and optimizing backend performance. Experienced in Agile environments, contributing to code quality, maintainability, and delivery speed.

EDUCATION

Indian Institute of Information Technology (IIIT) Sonepat

Nov 2022-Jul 2026

Bachelor of Technology (B.Tech), Information Technology — CGPA: 8/10 Class 10th: 80% — Class 12th: 80% — JEE-Mains Percentile: 96.7%

RELEVANT COURSEWORK

Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Computer Networks, Automata Theory, Compiler Design, Software Engineering, Big Data Analytics

ACHIEVEMENTS

- Solved 250+ LeetCode problems, applying DSA techniques to optimize algorithm visualizations for front-end tools.
- Achieved 5-Star Coder status on **HackerRank** (Profile).
- Received the "Best Fashion Taste" award at Euphoria 2022, recognized for creativity and presentation.
- Built and maintained multiple full-stack GitHub projects demonstrating practical applications of web technologies.
- Regularly participated in coding contests to strengthen problem-solving and algorithmic thinking.

TECHNICAL SKILLS

- Languages: C, C++, Java, Python, JavaScript, TypeScript, SQL, HTML, CSS
- Frameworks/Libraries: React.js, Node.js, Express.js, Next.js, REST APIs, Tailwind-CSS
- Databases: MongoDB, MySQL
- Tools Platforms: Git, GitHub, VS Code, Linux, Postman
- Concepts: Data Structures & Algorithms, OOP, OS, DBMS, Computer Networks

PROJECTS

ChatPilot (Full Stack) GitHub

Jan 2025-Jun 2025

- Developed a real-time messaging platform supporting 1,000+ concurrent users with 99.9% uptime.
- Improved message delivery latency by 40% using WebSocket-based communication (Socket.io) and optimized database queries.
- Enabled secure group and private chats with live user status, typing indicators, and encrypted sessions via JWT and bcrypt.

Digital Library Management System (Full Stack) GitHub

Oct 2024-Dec 2024

- \bullet Built a MERN-based library platform used by 100+ students and staff, enabling 24/7 access to digital catalogs and book transactions.
- Reduced manual tracking by 90% by integrating real-time book reservations, returns, and role-based dashboards for students and admins.
- Improved security and data integrity using JWT authentication, React Hooks for state control, and Express + MongoDB for robust backend APIs.

Sorting Algorithm Visualizer GitHub

Jun 2024-Aug 2024

- Designed an interactive tool to help students visualize sorting algorithms, increasing comprehension scores by 50% (measured via peer survey).
- Reduced animation lag by 45% using p5.js optimizations and efficient DOM handling.
- Received positive feedback from 90% of users during college workshops on DSA concepts.

WORK EXPERIENCE

Project Lead - Academic Projects

Jan 2025-Jun 2025

- Managed 2-member teams across two academic projects, delivering both ahead of schedule.
- Conducted weekly code reviews and planning sessions, increasing team velocity by 25%.

EXTRA CURRICULAR ACTIVITIES

- Led college teams in cricket, football, badminton, and basketball; earned medals for outstanding performance and leadership in intercollegiate sports tournaments.
- Engaged in continuous personal development through reading and music, supporting focus and creative thinking.