

# Shivam Bansal

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## SUMMARY

Final-year Information Technology student with a strong foundation in software development, data structures, and database systems. Experienced in building full-stack web applications and production-grade platforms using modern tech stacks. Passionate about solving real-world problems through clean, scalable code.

## EDUCATION

- Manipal Institute of Technology** Manipal, India  
*B.Tech, Information Technology; CGPA: 8.92* 2022 - 2026  
*Courses: Data Structures, Algorithms, Operating Systems, Database Management, Object Oriented Programming, Operating System, Embedded System, Computer Networks*
- John Milton Public School** Agra, India  
*Class XII, Percentage: 90.5%* 2021
- St. Peter's College** Agra, India  
*Class X, Percentage: 95.4%* 2019

## SKILLS SUMMARY

- Languages:** C, Java, C++, SQL
- Tools:** GitHub, Android Studio, Jupyter Notebook
- Frontend:** HTML5, CSS3, JavaScript, React, Bootstrap
- Backend:** Node.js, Express, Prisma ORM, JWT, REST APIs
- Databases:** PostgreSQL, MongoDB, MySQL, Firebase
- Operating System:** Windows, Linux, MacOS

## PROJECTS

- Smart Parking System App (Java, Android Studio, Firebase):** Developed a smart parking system app providing real-time parking space availability, pre-booking, on-spot QR scanning, GPS navigation, and automated payment using razorpay and in-app wallet. Integrated Firebase for space updates and payment processing.
- Secure File Transfer Using Audio Steganography (Python, XAMPP):** Developed a secure file transfer system combining AES-256 encryption and audio steganography (LSB encoding) for hiding sensitive data in audio files. Transferred securely using SFTP.
- APTS - DBMS Based Academic Project Tracking System (MySQL, React, Node.js):** Developed a platform for professors to track project progress, form teams, and for admins to manage projects.
- CRM Platform Website (React, Node.js, PostgreSQL):** Developed and deployed a full-stack CRM platform actively used by a local manufacturing firm specializing in steel wire and related products. Includes a public inquiry form, JWT-secured admin dashboard, and PostgreSQL backend for lead management.
- Rubik's Cube Solver Site (C#, ASP.NET, React):** Developed a full-stack web application featuring a Rubik's Cube solver. The C# backend implements the Kociemba Two-Phase Algorithm, while the React frontend provides an interactive user interface for entering scrambles and visualizing solutions.

## EXPERIENCE

- Internship at Skill High (Feb 2025 – June 2025):**
  - Built backend systems for the sales lead and admin dashboards using Node.js, Express, PostgreSQL, and Prisma.
  - Collaborated on testing and improving the company's main website for production readiness.
  - Worked with a cross-functional team to design scalable APIs and implement secure authentication.
- Core Committee Member, REVELS, Finance And Info Desk (Jan 2025 – March 2025):**
  - Managed finance, information dissemination, Merchandise, Passes for the College only cultural fest.
  - Outstation Management.
- Management Committee Member, MIST, MIT (Oct 2023 – Nov 2024):**
  - Oversaw technical events like smoked, etc.
  - Collaborated with the team to organize CTF workshops and sessions for students.

## ACHIEVEMENTS AND CERTIFICATIONS

- Reached the penultimate round in the Adobe Hackathon'24 & '25 (12-08-2024)
- Winner - TESSERACT, TechTatva'23 (MIT, Manipal - Official Technical Fest) (21-10-2023)
- Winner - TRAIL AND TAIL, Revel'24 (MIT, Manipal - Cultural and Sports Fest) (07-03-2024)