

Shivam Bansal

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EDUCATION

Manipal Institute of Technology (MIT)

B.Tech in Information Technology; CGPA: 8.92

Manipal, India

September 2022 – May 2026

John Milton Public School

Class XII, Percentage: 90.5%

Agra, India

2021

St. Peter's College

Class X, Percentage: 95.4%

Agra, India

2019

EXPERIENCE

Virtual Software Engineering Intern Program — Forage

July 2025 – Aug. 2025

JPMorgan Chase & Co.

Remote

- Simulated enterprise-grade financial transaction systems; integrated an external REST Incentives API.
- Exposed a REST Balance API on a custom port for real-time user balance queries.

Backend Engineering Intern

Feb. 2025 – June 2025

Skill High

Hyderabad

- Built backend systems for sales lead and admin dashboards using Node.js, Express, PostgreSQL, and Prisma.
- Designed and built the customer relationship management portal.

PROJECTS

Smart Parking System App | *Android Studio, Java, Groovy, Firebase* | [GitHub](#) | [Live Demo](#)

- Designed an Android application with Firebase Authentication and real time database.
- Database manages user profiles, parking spots, vehicles, wallet balance, and bookings.
- Implemented QR-based booking, Razorpay payment gateway, and GPS-based navigation using Google Maps API.

Secure File Transfer Using Audio Steganography | *React, Python* | [GitHub](#) |

- Engineered a hybrid security system combining AES-256 encryption with LSB audio steganography to conceal sensitive files in audio signals.
- Developed Python backend for encryption & embedding, React interface for upload/download, and verification pipeline for integrity checks.

APTS — Academic Project Tracking System | *MySQL, React, Node.js* | [GitHub](#) | [Live](#)

- Implemented JWT-based authentication, middleware-level RBAC, and bcrypt password hashing for secure access control.
- Designed RESTful APIs with CRUD endpoints for projects, tasks, and teams.
- Used zod and Prisma migrations for schema versioning and enforced foreign key constraints for relational consistency.

CRM Platform Website | *React, Node.js, PostgreSQL* | [GitHub](#) | [Live](#)

- Engineered CRM system with React, Node.js, Express, and PostgreSQL; employed Prisma ORM for DB abstraction.
- Added JWT authentication & role-based authorization for secure access to leads, sales, and customer data.
- Integrated WhatsApp APIs and Nodemailer for automated messaging workflows to customers.

Rubik's Cube Solver (Two-Phase Algorithm) | *Node.js, React, C++* | [GitHub](#) | [Live](#)

- Implemented Kociemba Two-Phase Algorithm in the backend; interactive UI for scrambles and solution visualization.

ACHIEVEMENTS & CERTIFICATIONS

Finalist - Collins Aerospace AeroHack'25 (June 2025)

Penultimate Round - Adobe Hackathon'25 (May 2025)

Finalist - (Adobe Hackathon'24) Adobe Gen AI Solve (Aug. 2024)

Winner - Trail and Tail, Revel'24 (MIT Manipal - Cultural and Sports Fest) (Mar. 2024)

Winner - TESSERACT, TechTatva'23 (Oct. 2023)

TECHNICAL SKILLS

Languages: C, Java, C++, SQL, CSS, JavaScript, HTML

Tools: GitHub, Android Studio, Jupyter Notebook

Frameworks: React, Node.js, Express, Prisma ORM, REST APIs

Databases: PostgreSQL, MongoDB, MySQL, Firebase

Operating Systems: Windows, Linux, macOS