

SARVESH BAJAJ

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EDUCATION

Indian Institute of Information Technology, Nagpur

2022 – 2026

B.Tech - Computer Science and Engineering - CGPA - 8.34

Nagpur, Maharashtra

HACKATHON EXPERIENCE

[HEREvolution Hackathon – Finalist \(BITS Pilani, 2024\)](#)

2024

- Built a **sentiment analysis dashboard** for voice calls using **React**, **Node.js**, and **Python-based ML**.
- Integrated **Firebase + MongoDB** syncing with **automated data pipelines**.
- Designed monitoring tools to **capture error logs** and usage metrics in real time.
- Worked in an Agile-style task board, breaking epics into **API**, **UI**, and **sync modules**.

PROJECTS

[TradeGuard – Real-Time Fraud Detection System](#)

(Django, DRF, PostgreSQL, Redis, Celery, WebSockets)

2025

- * Developed a **microservice-based API** for fraud detection with 95% model accuracy.
- * Used **Celery workers + Redis** for **concurrent transaction handling** and real-time alerts via websockets
- * Designed a **modular REST API** layer with async processing and logging mechanisms.
- * Wrote **unit tests using PyTest** for API endpoints and error conditions.

[Steply – Personalized Hobby Learning App](#)

(React Native, Supabase, TypeScript, LLM Integration, Mobile UI/UX, Postman, Git)

2025

- * Developed Steply, a polished **cross-platform** hobby learning app using **React Native (Expo Router)** with clean architecture, responsive UI, and Dribbble-inspired design.
- * Integrated **LLM chaining** to dynamically generate personalized 7-day learning plans with **structured content (tables, YouTube links)** based on user-selected hobbies and levels.
- * Implemented gamification features like XP, streaks, and **progress tracking with real-time data persistence using Supabase**, ensuring a smooth and engaging user experience.

[FoodOrder API Backend – CI/CD Ready Order System](#)

(Node.js, TypeScript, PostgreSQL, Redis, Docker, GitHub Actions)

2023

- * Built **modular, testable microservices** with secure **JWT-based auth and RBAC**.
- * Used **Redis for real-time queue caching**; optimized queries for low latency.
- * Containerized APIs with Docker and implemented **CI/CD pipeline via GitHub Actions**.
- * Ensured documentation and **Postman tests** for API contract validation.

TECHNICAL SKILLS

Languages TypeScript, JavaScript, Python, Java

Backend Node.js, Django REST, Microservices, REST APIs, WebSockets

DevOps & CI/CD Docker, GitHub Actions, Jenkins (basic), Postman

Testing Unit tests, PyTest, Postman API suites, CI validation

Databases PostgreSQL, MongoDB, Redis

Other Tools Git, Linux, Agile/Scrum, JSON/XML, Data Mapping, Anypoint Studio

Concepts DSA, OOAD, Design Patterns, Software Architecture, Logging

Course Work: Data Structures, Operating System, Object Oriented Programming, Computer Architecture and Organization.

Open Source Contribution

- * **Cal.com** – Contributed production fixes in TypeScript-based calendar module (typed error resolution).
- * **Strapi.io** – Raised and fixed UX issue in their React-based search component.

Achievements

- **NTSE Scholar** - Issued by Government of India
- **Finalist** in HEREvolution Hackathon at Bits Pilani
- Highest rating of **1090 on Codeforces**
- Secured **Global Rank 1021** in Codechef Starters-118 Div-3 2024 among 5k+ participants.