

# SITRA VISHNU BHARGAV

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## Education

### IIT Jabalpur

B.Tech - Computer Science and Engineering

Nov 2022 – Aug 2026

CPI - 7.7

## Technical Skills

**Frontend:** ReactJS, JavaScript, Redux Toolkit, HTML, CSS

**Backend:** Django, NodeJS, ExpressJS

**Languages:** Python, Java, C++

**Databases:** MongoDB, MySQL, PostgreSQL

**Tools & Platforms:** Git, GitHub, Docker, Postman, Supabase, Apache Kafka

**Relevant Coursework:** Data Structures, Operating Systems, DBMS, Computer Networks, Software Engineering, Data Engineering, AI, OOP

## Patents and Publications

### DiabEase: Smart Insulin Pen for Dosage Tracking & Site Rotation

Published

Application No: 202521084231

- Published under the **Indian Patent Office**, demonstrating applied research and productization in healthcare IoT.
- Designed a compact, portable device with an OLED display and onboard memory to track insulin dosage times, injection locations, and schedule future doses efficiently.

## Projects

### InventX | MongoDB, ExpressJS, ReactJS, NodeJS

[Live Demo](#) — [GitHub](#)

- Developed a MERN-stack **Inventory Management System** with JWT + HttpOnly cookie-based authentication and role-based access control, supporting scalable product management with pagination and real-time stock updates..
- Designed a responsive dashboard using **ReactJS (Hooks, Redux Toolkit)** and **Zod**-based form validation, improving form accuracy and user experience across devices.
- Integrated **Cloudinary API** for secure product image uploads and **Nodemailer** for password reset and contact workflows, increasing operational reliability.
- Integrated inventory analytics: stock valuation, out-of-stock alerts, and category insights — enabling data-driven procurement and reducing delays.

### StudyBuddy | Django, Supabase, JavaScript, PostgreSQL

[Live Demo](#) — [GitHub](#)

- Developed a collaborative study platform using **Django** and **Supabase**, enabling users to join topic-based virtual study rooms with live chat and participant presence tracking.
- Implemented real-time messaging using **Supabase Realtime SDK** on the frontend, providing instant updates and an interactive user experience.
- Built JSON-based APIs for messaging and participant data with efficient database queries to ensure fast data access.
- Implemented secure email authentication with a **custom Django user model**, **CSRF protection**, and login-required decorators for access control.

## Achievements

- Solved 600+ algorithmic problems on LeetCode, GeeksforGeeks, and CodeChef
- Mentored 25+ peers in coding bootcamps, significantly improving their DSA skills.

## Leadership & Extracurriculars

### Student Senate Member

Feb. 2025 – Present

Student Governance

Jabalpur, India

- Represented 500+ students, advocating for academic reforms and improved feedback mechanisms.
- Coordinated cross-faculty events and meetings, increasing participation .

### Shutter-Box

Nov. 2022 – Present

Photography Club

Jabalpur, India

- Directed a short film featured in regional festivals, boosting club visibility .
- Mentored 15+ peers in cinematography, enhancing event documentation quality.