

Aditya Agarwal

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OVERVIEW

Web developer with hands-on experience in full-stack projects using Next.js, Express, and PostgreSQL. Strong collaborator with a passion for scalable systems and real-world problem solving.

EDUCATION

- Indian Institute of Technology (IIT) Patna** Patna, India
• BTech in Chemical and Biochemical Engineering. **CPI: 7.34** Aug 2023 - May 2027
- Boston Public School** Agra, India
• AISSCE by CBSE. **Percentage: 87%** Apr 2017 - Mar 2019

ACCOMPLISHMENTS

- Secured an All India Rank of **13,925** out of more than **189,000** candidates in JEE Advanced 2023.
- Ranked in the top **3.2%** out of more than **1.16 million** candidates in JEE Mains 2023.
- Qualified for National Semifinals** of the Road Safety Hackathon by NHAH and HOAI — Top 50 out of 42,000+ candidates.
- Qualified for National Quarterfinals** of HP Power Lab — Top 1,000 out of 130,000+ candidates.
- Team Member, DD Robocon 2024:** Reached national finals (**Top 46**) with **highest Stage 2 score**

PROJECTS

- Room Booking Management – RomMaze (Full Stack)** June 2025
• Personal Project / **GitHub**
 - End-to-End Booking Flow: Automated room booking for events, replacing IITP's manual email process.
 - Efficiency Boost: Reduced booking time from **3-4 hours** to **5-10 minutes** using streamlined digital workflows.
 - Auth & Access: Integrated **OAuth 2.0** with role-based dashboards for users and admins which improved security by 80% compared to normal email and password login.
 - Email Queuing: Used **BullMQ (Redis)** and **Nodemailer** for async email notifications.
 - Scalability Proven: Tested with **5100+** requests via **Artillery** to verify robustness and performance.
 - Vacancy Chart: Real-time cache updates and availability tracking using Redis for instant status updates.
 - Tech Stack:** Next.js, TypeScript, ShadCN UI, Express.js, Prisma, PostgreSQL, Redis, Docker.
- IIT Patna Official Website (Frontend)** Dec 2024 – June 2024
• Institute Project / **Live Site** / **GitHub**
 - Key Contribution: Built **Campus Life** and **Alumni** pages for IIT Patna's official site.
 - UI Bug Fixes: Resolved **10+** UI issues based on user feedback and testing.
 - Modern UI: Developed responsive, animated layouts using **Next.js**, **GSAP**, and **Framer Motion**.
 - Collaborated with **5+** developers to build a full-stack site for IIT Patna using Git and agile methods
- ChESSx – Chemical Engineering Society Website** Dec 2024 – Present
• Full Stack Developer / IIT Patna / **GitHub**
 - Official Platform: Built the official website for **ChESSx**, IIT Patna's Chemical Engineering Society.
 - Dynamic Features: Implemented gallery-based events and interactive blog engine with content management.
 - Live Forms: Created hoodie ordering system with **admin-controlled visibility toggles**.
 - Admin Panel: Role-based access to manage blogs, events, users, and team members efficiently.
 - Tech Stack:** Next.js, Tailwind CSS, ShadCN UI, Framer Motion, Express.js, MongoDB, Axios.

SKILLS / RELEVANT COURSEWORK

- Programming Languages:** C, Java, Javascript, SQL, Typescript
- Core CS Subjects:** Algorithms & Data Structures **Currently Learning:** DBMS, REST APIs, LeetCode DSA Patterns
- Tools/Technologies:** PostgreSQL, OOPs, Web Development (Frontend + Backend), Docker, Redis, Shadcn, Tailwind css, Nodejs, React, Nextjs, Expressjs, HTML, CSS

LEADERSHIP EXPERIENCE

- Sub-Coordinator, Tinkerer's Lab Managed 14+ teams**, led robotics workshops for Celesta 2024.
- Conducted hands-on **robotics workshop** on bot-building as part of the **Celesta 2024** pre-event initiatives.
- Coordinator, ChESSx Web Dev Committee** – Led website development and internal tooling projects.