

# Bhoumik Chopra

☎ +91-9871037727 ✉ bhoumikchopra07@gmail.com 🔗 LinkedIn 🌐 GitHub

## ABOUT ME

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A highly motivated Computer Science student (8.22 CGPA) dedicated to creating technology that delivers tangible value and a seamless user experience. My primary focus is on full-stack development, using frameworks like React and Node.js with TypeScript to build robust and scalable applications. As a dedicated team player and a lifelong learner, I am eager to apply my strong problem-solving abilities and contribute to an innovative engineering team that is passionate about making a difference.

## EDUCATION

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• **Bachelor of Technology in Computer Science and Engineering** 2022 – 2026  
*Vellore Institute of Technology, Bhopal* CGPA: 8.22/10.0

## TECHNICAL SKILLS

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- **Languages:** JavaScript, TypeScript, Python, C++
- **Frontend:** HTML5, CSS3, React.js, Next.js, Flutter, Redux, Tailwind CSS
- **Backend:** Node.js, Express.js, SQL (PostgreSQL), NoSQL (MongoDB), Prisma
- **Tools & Platforms:** Git, GitHub, VS Code, Supabase, Vercel, Render
- **Concepts:** RESTful API Design, SDLC

## EXPERIENCE

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- **ISABE Student Developer (College Representative)** Jan 2025 – Present  
*International Society for Air Breathing Engines (ISABE)* Remote
- Own and manage the entire backend infrastructure for the new ISABE web portal, responsible for API development, database operations, and system stability.
  - Implement secure and scalable backend solutions using Node.js, Express, and PostgreSQL to support a global user base.
  - Collaborate within an Agile framework to deliver features, resolve bugs, and optimize system performance for production use.

## PROJECTS

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- **SOS Emergency Response System – GenAI Incident Verification**  
*Tech: Flutter, GenAI (YOLOv8), TypeScript, Supabase, Google Maps API*
- Engineered a high-impact solution to a real-world problem by integrating a GenAI (YOLOv8) model for incident verification, reducing false positives by 70%.
  - Owned the end-to-end frontend development in Flutter, delivering a responsive UI that improved user task completion time by 40%.
  - Architected a scalable backend with TypeScript and Supabase, optimizing responder routing to cut dispatch delays by up to 60%.
- **CollabSphere – Collaborative Project Platform**  
*Tech: React.js, Node.js, Express.js, MongoDB, Passport.js*
- Delivered a full-stack MERN application to connect students for project collaboration, fostering community and teamwork.
  - Owned the development of an intelligent matching algorithm based on user skills, a core module delivering significant user value.
- **Kitabi World – E-Commerce Book Platform**  
*Tech: React.js, Redux, Node.js, Express.js, MongoDB*
- Built a dynamic e-commerce platform featuring advanced search, sorting, and a real-time rating system.
  - Applied state management principles effectively using Redux to ensure a smooth and responsive user experience.
- **Safar Saathi-A Carpooling Website**  
*Tech: Next.js, TypeScript, Prisma, shadcn/ui, React Hook Form, Context API*
- Built a full-stack web application to match users based on route, time, budget, and gender preferences.
  - Implemented filters for cost and compatibility using Context API for global state management

## LEADERSHIP CO-CURRICULARS

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### •Event Manager – VITronix Club

*Jan 2023 – Present*

- Demonstrated strong leadership and planning skills by successfully organizing three major technical events.
- Led and coordinated event logistics for over 200 participants, ensuring smooth operations and high engagement.

### •Technical Team Member – IOS Club

*July 2023 – Present*

- Contributed to managing "Game Flix 2.0," a university-wide event during the ADVITYA 2024 tech fest.
- Maintained and updated the club's official website, ensuring information accuracy and optimal performance.