

Bhounik Chopra

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Bachelor of Technology

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EDUCATION

•Bachelor of Technology in Computer Science and Engineering

2022-26

Vellore Institute of Technology , Bhopal

CGPA: 8.22

PERSONAL PROJECTS

•SOS Emergency Response System

An app helping people to connect promptly with the SOS services

- Deployed a YOLOv8-based (M/F) emergency model within the app for fast and accurate incident verification, reducing false positives by over 70 % contributed to fire data annotation and severity tagging based on intensity and spread.
- Led the complete Flutter frontend development across Android and iOS, streamlining SOS reporting with a UI that improved user task completion time by 40% and ensured seamless cross-platform responsiveness.
- Integrated backend systems and APIs to support real-time geolocation syncing and Supabase data operations; optimized responder routing via Google Maps API and GeoHashing, cutting dispatch delays by up to 60%.
- Developed backend with TypeScript for type safety and performance.

•CollabSphere

A collaborative platform designed to connect students with peers for successful project partnerships.

- Developed an inclusive platform that enables introverts, ambiverts, and freshmen to find project partners easily, fostering collaboration and community engagement.
- Implemented intelligent matching algorithms to connect users based on skills and project interests, optimizing the collaboration process.
- Integrated Passport.js for secure authentication, ensuring user data protection and privacy.
- Technologies Used: React.js, Express.js, MongoDB, CSS, HTML, promoting a responsive and engaging user interface.

•Kitabi World

A dynamic platform for browsing, purchasing, and reading books.

- Developed a user-friendly platform with seamless browsing, purchasing, and reading functionalities for books.
- Implemented advanced search and sorting features, enabling users to find books effortlessly based on language, ratings, authors, and publishers.
- Integrated a real-time rating system, allowing users to rate books and enhance the feedback experience.
- Built a cart system for managing selected books, ensuring a smooth purchasing process.
- Technologies Used: React.js, Redux , Node.js, Express.js, MongoDB.

EXPERIENCE

•ISABE Student Developer (College Representative)

Jan 2025 – Present

International Society for Air Breathing Engines (ISABE)

Remote

- Sole backend developer for the new ISABE web portal, maintaining infrastructure, APIs, and database operations.
- Representing college in an official capacity to ensure long-term development and upkeep of ISABE's online presence.
- Implemented secure, scalable backend solutions using technologies such as Node.js, Express, and PostgreSQL.
- Coordinating with the web team to deliver features, resolve bugs, and optimize system performance for production use.

TECHNICAL SKILLS AND INTERESTS

Development Stack: C++, JavaScript, TypeScript, HTML/CSS, React.js, Node.js, Prisma, Tailwind CSS, NextJS

Tools & Platforms: Git, GitHub, VS Code, Supabase, MongoDB

Academic & Interests: DSA, DBMS, Full Stack Web Development

POSITIONS OF RESPONSIBILITY

–Technical Team Member -IOS CLUB

July 2023 - Present

- * Successfully Managed Game Flix 2.0- Treasure Hunt in ADVITYA 2024 of VIT Bhopal University
- * Maintained Club's Website

–Event Manager -VITronix

Jan 2023 - Present

- * Led and coordinated events with over 200 participants, ensuring smooth operations and engagement.
- * Successfully organized three major events, demonstrating teamwork and strategic planning skills.