

Aritra Sarkar

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Education

Visvesvaraya National Institute of Technology

Aug 2023 – Present

Bachelor in Technology Chemical Engineering

- CGPA: 7.69/10
- **Relevant Coursework:** Data Structure, Web Development, Introduction of Computer Programming (C and python)

Projects

Real-Time Chat Application

[ChatApp](#) 

- Developed a real-time chat application with React.js (frontend) and Node.js, Express.js (backend), ensuring seamless communication with WebSockets (Socket.IO).
- Integrated database as MongoDB with Cloudinary for efficient media storage, reducing image load times by 40%, enhancing responsiveness and user experience.
- Implemented real-time event-driven communication via Socket.IO, ensuring instant message delivery.
- Technologies: React.js, Node.js, Express.js, MongoDB, Socket.IO, Cloudinary.

Classroom Booking System

[CRCbackend](#) 

- Developed and optimized a backend system for classroom booking, reducing administrative paperwork by 25% and improving scheduling efficiency.
- Engineered secure authentication (JWT) and database integration (MongoDB) to ensure seamless user login and registration.
- Designed and deployed RESTful APIs to connect with a Flutter-based frontend, enhancing user experience with booking updates.
- Technologies: Node.js, Express.js, MongoDB, JWT, REST API.

Store Management System

[Online-Store-Tracker](#) 

- Built a store management system using C++ and STL for efficient inventory tracking.
- Optimized search operations using unordered maps, vectors, and queues, improving efficiency by 40%.
- Technologies: C++, STL (vectors, maps, queues), OOP.

Technologies

Languages: C++, C, JavaScript, Python

Front-end Frameworks Libraries: HTML, CSS, React.js

Backend-end Frameworks & Libraries: Node.js, Express.js, Websocket, RESTful API

DataBase: MongoDB, PostgreSQL

Achievements

Codechef: Rating 1300+

A competitive ranking on Codechef through consistent participation in coding challenges and competitions.

Smart India Hackathon: Selected among the top 20 teams at the college level, competing against 40+ teams at the college level.

Junior Developer: IDS Club, VNIT Nagpur

Contributed to the development to build application for Institute level