

PRANAV ANAND PRAKASH SHARMA

B.Tech – Computer Science and Engineering
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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2022-Present	B.Tech- CSE	NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI	8.75
2022	Class XII	INTERNATIONAL INDIAN SCHOOL, AL JUBAIL, SAUDI ARABIA/CBSE	94.2%
2020	Class X	INTERNATIONAL INDIAN SCHOOL, AL JUBAIL, SAUDI ARABIA/CBSE	94.8%

Projects

ChatApp: A Real-Time Chat Application

Jan 2024

Developed a full-stack web application for private chat functionality.

Technologies:

- Backend: NodeJS, Express, MongoDB
- Frontend: React, React-router-dom, React-bootstrap
- Others: Socket.io, bcrypt, Validator, cors, Moment, react-input-emoji, JWT, dotenv

Project Highlights:

- Modular Frontend: Built reusable UI components & implemented Context API for state management (AuthContext & ChatContext).
- Real-time Communication: Integrated Socket.io for sending/receiving messages and user connection management.
- Secure User Management: Designed API endpoints for user registration, login, search, and secure password storage with bcrypt.
- Chat Functionality: Developed APIs for chat creation, retrieving chats, sending/receiving messages, and unread notification handling.
- Data Modeling: Defined data structures for users, chats, and messages stored in MongoDB using JWT for ID generation.

Key Takeaways:

This project showcases my proficiency in core web development concepts:

- Building robust backend APIs with NodeJS, Express, and MongoDB.
- Creating interactive and user-friendly frontend experiences with React, React-router-dom, and React-bootstrap.
- Implementing real-time communication through Socket.io.
- Prioritizing user security with password hashing and JWT authentication.

Technical Skills

- Programming Languages: C, C++
- Web Development: HTML, CSS, JavaScript, Socket.io
- Other Skills: Data Structures And Algorithms

Positions of Responsibility

- **Guest Lecture Coordinator, Vortex'24:** *Jan 2024 –Present*
 - Worked in Vortex'24, the Annual National-level Technological Symposium of the CSE department.
 - Worked closely with the team to help secure and coordinate exciting speakers for the Vortex'24 guest lecture series.