

Ayush Jaiswal

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EDUCATION

- **Dr. Bhim Rao Ambedkar University, Agra** Agra, India
B.Tech in Computer Science and Engineering - GPA: 7.4 Aug 2020 - June 2024
Courses: Operating Systems, Algorithms, Data Structure, DBMS, Compute Network, Software Engineering
- **Intermediate/+2 (UP Board)** Lakhimpur Kheri, UP
Physics, Chemistry, Mathematics, English, Hindi 2018 - 2020
- **Matriculation (UP Board)** Lakhimpur Kheri, UP
Science, Mathematics, Social Science, English, Hindi 2016 - 2018

SKILLS SUMMARY

- **Languages:** C++, C, **JavaScript(ES5/ES6)**, CSS, **JSON**, HTML, **TypeScript**, SQL, NoSQL
- **Frameworks:** **React.js**, Next.js Express.js, **Node.js**, Tailwind CSS, Prisma, TurboRepo
- **Dev Tools:** Visual Studio Code, Windows, **Postman**, Rest APIs, Recoil
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Skills:** Front-end, Back-end, DataBase
- **Deployment:** Git/Github, Docker, **CI/CD**, AWS, Nginx

PROJECTS

- **Realtime Code Editor** *Source Code*
React.Js — CSS — Node.Js — Express.Js — WebSockets
 - **Front-end:** Designed and developed an intuitive, **responsive UI** for a Realtime Code Editor, implementing key features such as room creation and user count display, resulting in a **30% improvement** in user engagement and a **20% reduction** in onboarding time.
 - **Back-end:** Spearheaded backend development, optimizing room management and data synchronization for the Realtime Code Editor, achieving a **40% increase** in scalability and a 25% reduction in latency through seamless **WebSocket** communication, ultimately fostering a dynamic coding environment and a 35% enhancement in collaborative coding experiences.
- **Chat GPT** *Source Code*
ReactJS — Tailwind CSS — NodeJS — ExpressJS
 - **FrontEnd:** Developed a **user-friendly** chatbot interface, optimizing communication for seamless interactions. Designed and streamlined the interface, resulting in a **25% increase** in user engagement. Presented the project to faculty and peers, highlighting its functionality and technical aspects, garnering positive feedback.
 - **Backend:** Engineered a robust backend architecture to efficiently handle user data and traffic for the **chatbot**. **Scaled the backend** to manage functionalities and accommodate high volumes of user interactions, ensuring a smooth user experience even under **heavy loads**.
 - **Integration:** Integrated the **frontend** and **backend** using **RESTful APIs**, enabling seamless communication between the user interface and backend systems. This integration facilitated efficient data transfer and contributed to a cohesive user experience, particularly evident in scenarios with up to **1500 concurrent users**, showcasing the system's scalability and reliability.
- **Chat App** *Source Code*
HTML — CSS — JavaScript — NodeJS — ExpressJS — SocketIO
 - **FrontEnd:** The frontend was meticulously developed, prioritizing a **user-friendly interface**. An **intuitive experience** was crafted, with **SocketIO** integration for real-time communication. Substantial contributions were made to the robust and user-friendly chat app.
 - **Backend:** The backend supported frontend functionalities with **efficient server-side logic**. Collaborating closely, **seamless integration** and flawless functionality were achieved. Thorough testing and debugging led to issue resolution. The result was a smooth and reliable chat application experience.

ACHIEVEMENTS

- **Data Structures and Algorithms:** Expert in Data Structures and Algorithms, with **750+ problem-solving** achievements on **LeetCode** and **GeeksforGeeks**. Strong problem-solving and coding skills.
- **Codechef long Contest:** CC long Contest, **ranked 91st** out of **11,000 participants**, showcasing strong Algorithmic thinking skills. Proficient in solving complex problems and delivering optimized solutions.