

Rahul Jha

☎ +91-7991177179 | ✉ rahuljhabokaro123@gmail.com | 🔄 Code-XT | 📍 Indian Citizen

EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science

July 2021 – July 2025

Bhopal, India

- **Coursework:** Data Structures, Algorithms, Databases, Computer Systems, Web Development
- **Cumulative GPA:** 8.87

Chinmaya Vidyalaya

12th Standard

April 2018 – April 2020

Bokaro Steel City, India

- **Cumulative GPA:** 9.4

Chinmaya Vidyalaya

10th Standard

April 2016 – April 2018

Bokaro Steel City, India

- **Cumulative GPA:** 9.3

PROJECTS

FunZoneDB

- Created a comprehensive and user-friendly information database platform, providing a centralized location for over 10,000 entries of anime, movies, TV series, and gaming content.
- Implemented a **recommender system** to boost user engagement by increasing content discovery by 30%.
- Designed integration of semantic search to enhance recommendations, reducing search time by 50%.

ChatterBox

- Prepared a real-time chatting application using React with WebSockets, achieving message transmission times under 100 milliseconds.
- Deployed robust user authentication and session persistence mechanisms, ensuring 99.9% uptime and zero data loss during user interactions.

ShareHUB

- Engineered ShareHub with a secure, end-to-end encrypted private file-sharing module, ensuring data security with AES-256 encryption.
- Incorporated an encrypted URL shortener, managing over 1,000 shortened URLs securely within ShareHub.

MotionCrash

- Developed MotionCrash, a gesture-controlled game, leveraging computer vision techniques for real-time interaction; achieved a 50% increase in user engagement and reduced latency to under 100ms.
- Reduced input latency by 80% compared to traditional input methods, offering a seamless, hands-free gaming experience.

Multithreaded Web Server + Proxy

- Constructed a high-performance web server and proxy in C++ using multithreading to handle multiple client requests concurrently, achieving a 200% increase in throughput.
- Implemented caching mechanisms to reduce latency by 50% for repeated requests, enhancing user experience significantly.
- Utilized synchronization techniques to ensure thread safety and prevent race conditions, maintaining data integrity and server stability.

FUN SIDE PROJECTS

devDoodle - Online Code Editor

- Created an online code editor supporting multiple programming languages, featuring real-time collaboration and syntax highlighting.
- Enabled persistent data storage and integrated database functionality, ensuring seamless code repository management directly within the editor.

Realtime Device Tracker

- Built a device tracking application using GPS and WebSocket technology, enabling real-time location updates with a refresh rate of 5 seconds.
- Designed a user-friendly dashboard with Leaflet Maps API integration, providing visual representation of device movements.

CurrencyCX

- Developed a Chrome extension for currency conversion, supporting over 150 currencies with real-time exchange rate updates.
- Leveraged external APIs for accurate and up-to-date conversion rates, focusing on ease of use and quick access.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Amazon

May 2024 – June 2024

Bhopal, India

NPTEL Cloud Computing

IIT Kharagpur

January 2024 – May 2024

Bhopal, India

DSA with C++

iamNeo

February 2024 – April 2024

Bhopal, India

SKILLS

Languages : C++, Java, Javascript, Node JS, ReactJS, Typescript, Next JS, Python, SQL

Tools : Notion, AWS , GitHub, OBS, Linux, Google Cloud, Figma, Docker, Postman, Cyber Security Tools

Interests : Gaming, Sketching, Otaku Culture, Reading, System Architecture, Hardware, Electronics