

VRAJ TALATI

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Education

Indian Institute of Information Technology, Nagpur
BTECH-Electronics and Communication Engineering

Sep 2021 – May 2025
CGPA - 7.9

Projects

🔗 Alumni-Connect | Node, Express, Rest API, Socket.io, React

[🔗Link](#)

- Optimized alumni networking process, **reducing search time by 90%** through targeted search functionalities making it easy to get referral and mentorship from alumni.
- Developed Alumni-Connect's frontend with React, Chakra-UI, and **Tailwind CSS**, and backend systems using Node.js, Express, and MongoDB for seamless data management..
- Implemented real-time communication using Socket.io, with scalability can be achieved through integration with **Redis**.
- Ensured platform security with **JWT** and **Bcrypt.js** authentication, enabling safe connections, and deployed it on render.

MultiThreaded Server | Java, Threads, Socket, Thread Pooling

[🔗Link](#)

- Made a **multithreaded server utilizing Java's ServerSocket**, capable of handling up to 1000 requests per minute, verified through performance testing using JMeter.
- Implemented a **thread pool within the server architecture**, significantly **enhancing throughput to approximately 10,000 requests per minute**, demonstrating improved scalability and resource management.
- **Optimized server performance** by deploying the thread pooling technique, resulting in a 10x increase in request processing capacity compared to the initial multithreaded server setup.

Trading Bot | Typescript ,Coindcx api ,Axios

[🔗Link](#)

- Leveraged a **trading startergy** which can help you make **1-2% profit** by simply buying any crypto in INR and converting that USD to INR again in less liquid market.
- **Automated order placement and cancellation** via the Coindcx API.

Achievements

- Made a platform named [Shoffline](#) that helps retailers and buyers to connect with each other and worked with a team of 7 people comprising of developers ,designers and marketers.
- Solved **500+** questions on leetcode and other coding platforms.
- Highest rating of **1700+** on Leetcode.(top 12%)
- Achieved a top **5** ranking in the Courier hackathon, earning a prize \$ 20 voucher.
- Led a team of 12 students in securing sponsorship of 200k+ for the annual fest, demonstrating strong leadership and collaboration skills.

Relevant Coursework

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|--------------------|-------------------------------|--------------------|
| • Data Structures | • Object Oriented Programming | • DBMS |
| • Operating System | • Application Programming | • Computer Network |

Technical Skills

Languages: Javascript, C, C++, Java, Html, Css, SQL

Developer Tools:VS Code, Github, Firebase, Docker, Postman

Technologies/Frameworks:React, Express, MongoDB, Redux, Mongoose, Redux, Axios, Socket.io

Soft-Skills:Leadership, Management,Teamwork