

Rahul Vishwakarma

Computer Science and Engineering
Madan Mohan Malaviya University of Technology,
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EDUCATION

- **Madan Mohan Malaviya University of Technology** 2022-26
Bachelor of Technology in Computer Science and Engineering

EXPERIENCE

- **Google Summer of Code - Submitty** May 2024 - August 2024
Open Source Software Developer Remote
 - Created comprehensive test cases using **Cypress**, covering extensive **E2E** scenarios for TA grading, ensuring system reliability.
 - Added a shortcut to the Notebook in the TA grading section for easy access, and resolved two issues that prevented Cypress tests from running in the Notebook section.
 - Enhanced student privacy by replacing identifiable RCSIDs with anonymous IDs in assignment download files.

PROJECTS

- **Xf Intern** Live | Github
 - Developed a secure authentication system and backend API with Node.js, Express.js, and MongoDB, including E2E tests using Cypress on CI.
 - Built a responsive frontend with React Redux and React Query, enhancing data retrieval and state management.
 - Modeled the platform's functionality after successful platforms like Wellfound and Internshala to improve usability and effectiveness.
 - Created a User-Admin section for managing job and internship postings, and application statuses.
- **Registration Portal - Xf Registration** Live | Github
 - Engineered a secure registration portal with Express and MongoDB, featuring JWT authentication for strong security.
 - Integrated NodeMailer for OTP verification and Multer for handling image uploads efficiently.
 - Crafted a React-based frontend with Google Charts to visualize Codeforces ratings, GitHub heatmaps, LeetCode stats.
 - Implemented full-text search functionality for efficient user discovery, enhancing the overall experience.
- **Real-Time WebRTC Communication Platform** Github
 - Built a WebRTC/WebSocket application featuring real-time messaging and file sharing capabilities.
 - Integrated the YouTube API to allow seamless video searching, watching, and peer-to-peer video chat, enhancing user engagement.
 - Designed and implemented advanced features such as screen sharing and a collaborative code editor using Monaco and Yjs, facilitating interactive teamwork.
 - Leveraged a dynamic platform leveraging modern web technologies to deliver an immersive and interactive user experience.

SKILLS

- **Programming:** C/C++, Data Structures, Algorithms, JavaScript, HTML/CSS, PHP
- **Libraries/Framework:** NodeJS, ExpressJS, React, React Query, Symfony
- **Databases/Testing:** MongoDB, PostgreSQL, Cypress, Jest
- **Operating Systems:** Windows, Mac
- **Other Tech:** Git, GitHub, Postman, Docker, Vagrant, PugJS, Redis

ACHIEVEMENTS / OPEN SOURCE CONTRIBUTION

- **Hacktoberfest:** Made valuable contribution to various projects, resolved **5+ issues**
- **Contributed over 20 pull requests**, to various open-source projects across different organizations