Rahul Vishwakarma

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Github | Linkedin | Leetcode

EDUCATION

- **Madan Mohan Malaviya University of Technology** — *2022-26*
  Bachelor of Technology in Computer Science and Engineering — CGPA: 7.80

EXPERIENCE

- **Google Summer of Code - Submitty** — *April 2024 - Current*
  Open Source Software Developer — Remote

  – Improved Experience for graders in **Manual/TA Rubric Grading Interface** by fixing bugs and execute small or modest user interface revisions.
  – Improved the expansion of our **automated testing** of the TA Grading pages with **Cypress**.
  – Tech Stack - PHP, Symfony, Python, Javascript, Cypress

PROJECTS

- **Registration Portal - Xf Registration** — *Live | Github*
  Use it as a Protfolio

  – Created a secured registration portal using **Express** and **MongoDB**, featuring **JWT** authentication. Implemented **Node-mailer** to securely send OTPs for data protection and to confirm successful registrations and **Multer** for image upload functionality.
  – Designed a frontend with **React** and **Google Chart** to visualize Codeforces rating charts, GitHub heatmaps, and LeetCode stats. Implemented **full-text search** functionality for user discovery, enabling users to search for others by their usernames.

- **Xf Intern** — *Live | Github*
  Place for Startup and Job Seeker

  – Developed a secure user authentication system and efficient backend API using **Node.js**, **Express.js**, and **MongoDB** for seamless data storage and retrieval.
  – Utilized **React Redux** and **React Query** to construct a responsive frontend, streamlining data retrieval processes ,state management and notably improving application performance.
  – Developed a dedicated **User-Admin** section allowing seamless job/internship postings and application management, similar to platforms like **Internshala** and **Wellfound**. Admins can easily update application statuses (e.g., pending, selected, not selected).

- **Social Networking API** — *Link | Github*
  Efficient NodeJs API

  – Developed a **RESTful API** with **Node.js** and **MongoDB** for a social networking application, supporting user profiles, text-based posts, and the capability to follow other users. Implemented **JWT-based** authentication for secure access, enabling user registration, login, and profile management.
  – Incorporated **rate limiting** to protect against brute force attacks and integrated **Jest** and **Supertest** for comprehensive testing of API endpoints, ensuring reliability and stability of the application.

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, Firebase, Docker, Vagrant, PugJS, Redis

ACHIEVEMENTS / OPEN SOURCE CONTRIBUTION

- **Rating on Coding Platforms**, Codechef-1435* **(Link)** , LeetCode - 1471* **(Link)**
- **Hacktoberfest**, Made valuable contribution to various projects, resolved **5+ issues**
- **Contributed over 10 pull requests** ,to various open-source projects across different organizations