Shaurya Pratap Singh

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Education

B.Tech in Computer Science & Engineering — Expected May 2025

Rajiv Gandhi Institute Of Petroleum Technology - Current CPI: 7.6 (Till 5th semester)

Technical Skills

Languages: C, C++, Python, JavaScript

Tools & Technology:

- React.js, Node.js, MongoDB, CSS, Express.js, MySQL
- Pandas, OOP, OpenCV, Numpy, Data Structures and Algorithms
- Unix/Linux Environment, TCP/IP Protocols, GitHub, Arduino

Experience

BMC Design Media — Nov 2023 - Dec 2023

- Contributed as a Full stack developer at Brand My Company, utilizing **React.js, Node.js, Express.js,** and **MongoDB**.
- Worked with street food vendors to create their online presence, which in turn boosted their sales by more than 35%.

Vice-President at ACM (Association for Computing Machinery) Student Chapter RGIPT — Aug 2023 - May 2024

- As the Vice-President of the ACM, I played a pivotal role in driving the organization's mission to foster a vibrant computing community.
- I organized coding events (CODE HOUR), webinars, and various events to create a coding community.

Co-Chief of Organizing committee of ENERGIA (Sports Fest) — Aug 2022 - May 2023

- Lead two Intramural Sports Meet being a Co-Chief. I was deeply involved in planning, proposing, and executing the event.

Projects

Greener-Grub : Optimizing Food Recycling —— *GitHub* — Dec 2023 - Feb 2024

- Spearheaded the development of a platform leveraging **React JS, Express JS, Node JS** and **Mongo DB** to tackle food wastage. Connected food suppliers with local food banks and NGOs, optimizing distribution logistics.
- Implemented separate admin panels for NGOs, streamlining operations. Optimized transportation routes and timing to minimize food spoilage and reduce costs.
- Utilized data analytics to optimize food rescue routes, minimize transportation costs by selecting the shortest path using **Dijkstra's Algorithm** and maximize benefits to communities in need.

TODO-App with Authentication —— *GitHub* — Sep 2023 - Oct 2023

- Created a dynamic task management website using **React.js, Node.js,** and **MongoDB.**
- Enabled users to create, edit, delete and track the status of tasks.
- Implemented secure login/register system with **bcrypt** for password hashing and **jsonwebtoken** for session management. Utilized **cors** for cross-origin resource sharing, **cookie-parser** for managing cookies, and **axios** for handling HTTP requests.

Face Recognition —— *GitHub* — July 2023 - Aug 2023

- Built a face recognition system using **Python, OpenCV,** and **NumPy.**
- Utilized OpenCV for image processing tasks such as capturing and pre-processing images.
- Used NumPy for efficient handling and manipulation of image data arrays.

Achievements

- Finalist in Reckon 5.0, a hackathon organized by **JIET & Ideaforage Innovation Pvt. Ltd.**
- Cleared IIT-JEE Advanced 2021 (Top 1.4%).
- Solved **350+** problems across various competitive programming platforms.