

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 6th semester)

Technical Skills

Languages: C, C++, Python, JavaScript, TypeScript

Frontend: HTML, CSS, React.js, Next.js, Tailwind, React Three Fibre

Backend: Node.js, Express.js, MongoDB, MySQL, Firebase, WebSockets

Other Technologies: GitHub, Docker, Jest, Arduino, Unix/Linux

Frameworks/Concepts: OOPs, Data Structures and Algorithms, OpenCV, Pandas, NumPy, Dijkstra's Algorithm

Experience

Web Developer Intern at Dumbledore Media

May 2024-Present

- Developed MERN stack websites for a travel agency, makeup academy, and updated the agency's site with React Three Fibre for 3D effects and responsiveness.
- Deployed websites using Vercel (frontend) and Render (backend), utilizing UptimeRobot to keep the backend alive on Render's free plan. Worked extensively with REST APIs and libraries such as Axios, jsonwebtoken, bcryptjs, Nodemailer, Mongoose, cors, Multer, body-parser, and validator.
- Designed Figma layouts for modern, user-friendly interfaces. Collaborated with team members to ensure seamless development and deployment, delivering optimized, scalable, and secure solutions.

Vice-President at ACM (Association for Computing Machinery) RGIPT SC

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 and led coding events (CODE HOUR), webinars, and technical workshops with over 150+ participants.

Co-Chief of Organizing committee of ENERGIA (Sports Fest)

Aug 2022 - May 2023

- Successfully co-led two Intramural Sports Meets with over 500 participants. 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.

Makeup Academy Website Development — *GitHub*

Aug 2024 - Oct 2024

- Designed and developed a full-stack website for a makeup academy using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Built a real-time customer review system with reviews stored in MongoDB and displayed dynamically. Implemented dynamic portfolio rendering optimized for both desktop and mobile.
- Deployed the website's frontend on Vercel and the backend on Render for real-time performance monitoring, ensuring scalability and smooth performance.

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 & Ideaforge Innovation Pvt. Ltd.**
- Cleared IIT-JEE Advanced 2021 (Top 1.4%).
- Solved **350+** problems across various competitive programming platforms.