

Saurabh Tiwari

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Education

IIT Delhi, Bachelor of Technology	2024
St. Paul, Senior Secondary Education	2020
Sanskar Vidya Sagar, Secondary Education	2018

Professional Experience

Full Stack Developer, STEPapp	Jun 2022 – Jul 2022
<ul style="list-style-type: none">Collaborated closely with the product and UI/UX teams to redesign a Progressive Web App (PWA) with 15K Daily Active Users (DAU) using ReactJS and NodeJS.Implemented Firebase Authentication for user authorization and utilized Cloud Firestore for data storage.	
Software Developer, Wishlink	May 2022 – Jun 2022
<ul style="list-style-type: none">Implemented React optimization techniques, including React Lazy, Suspense, Memo, and Windowing, resulting in a more than 20% improvement in Lighthouse performance score.Incorporated debouncing and throttling to enable efficient search functionality and prompt API results based on user input.	
Frontend Developer, Scoreplus	Jan 2022 – May 2022
<ul style="list-style-type: none">Developed projects using Next.js to leverage server-side rendering, enhancing SEO capabilities, and optimizing image loading.Implemented Tailwind CSS for inline media queries and utilized Material-UI (MUI) to leverage production-ready components.	

Projects

Portfolio	Dec 2023 – present
<ul style="list-style-type: none">Created a dynamic portfolio website with Next.js for a robust front-end, TypeScript for code clarity, Tailwind CSS for responsive styling, and Firebase for backend integration.Implemented Vercel for efficient deployment and hosting, ensuring optimal performance and a visually impressive user experience.	
ICCNTSD	Jun 2023 – Jul 2023
<ul style="list-style-type: none">Developed a comprehensive website for the International Conference on Carbon Neutral Technology for Sustainable Development and the 2023 Taiwan-India Exchange Workshop on Sustainable Renewable Energy & Smart Energy Storage Technology.Incorporated a registration system and abstract submission functionality using Express JS and MongoDB, and deployed the website to AWS Elastic Beanstalk to ensure efficient scalability and load balancing.	
BECON'23, IIT Delhi E-Summit	Jun 2022 – May 2023
<ul style="list-style-type: none">Developed and managed the registration portal, overseeing the successful registration of more than 7000 students. Implemented a user-friendly interface and database system to streamline the registration process and securely store student data.	

- Created a comprehensive **QR code system** and scanner application for efficient entry management.
- Launched the **Campus Ambassador website** [↗](#), attracting over **500 students** and facilitating their engagement as event ambassadors.

Flood Predictor [↗](#)

Jun 2023 – Nov 2023

- Designed and implemented a dynamic Flood Predictor using **Flask**, incorporating **Machine Learning** (Random Forest) for accurate forecasting. Integrated Data Visualization techniques to generate **plots and Density maps**, providing users with immediate access to critical flood information.

Opportunity Portal [↗](#)

Jun 2022 – May 2023

- Led the creation of an innovative opportunity portal connecting startups with students, optimizing recruitment and promoting industry-academia collaborations. Developed frontend using **React.js** and **Material UI**, and backend with **Express.js** and **MongoDB**.

BHM, Board for Hostel Management, IIT Delhi [↗](#)

Jul 2021 – May 2022

- Spearheaded the end-to-end development of a robust website for the Board for Hostel Management (BHM) utilizing **ReactJS** and **Bootstrap**, resulting in a highly functional platform.

Technical Skills

Frontend

HTML5, CSS3, JavaScript, TypeScript, JSX, ReactJs, NextJs, Bootstrap, TailwindCSS, MUI, Redux, React-Native.

Database

MongoDB, MySQL

Programming Languages

C++, Python

Backend

NodeJs, ExpressJs, Django, Flask

Cloud

AWS(EC2, Elastic Beanstalk, Lightsail, S3, SES, Certificate Manager), Azure Web Apps, Firebase, Vercel, Netlify, Render, GitHub Pages.

Softwares

GoDaddy, Postman, GitHub, BitBucket, Figma

Interests

Cricket (Awarded the Silver Medal in Cricket at the IIT Premier League (IITPL) 2022, for securing 2nd position in annual tournament, demonstrating exceptional sportsmanship and teamwork.)