

# 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

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

## Projects

<b>Portfolio</b>	Dec 2023 – present
<ul style="list-style-type: none"><li>Created a dynamic portfolio website with <b>Next.js</b> for a robust front-end, <b>TypeScript</b> for code clarity, Tailwind CSS for responsive styling, and <b>Firebase</b> for backend integration.</li><li>Deployed on <b>Vercel</b> for efficient deployment and hosting, ensuring optimal performance and a visually impressive user experience.</li></ul>	
<b>ICCNTSD</b>	Jun 2023 – Jul 2023
<ul style="list-style-type: none"><li>Developed a comprehensive website for the <b>International Conference</b> on Carbon Neutral Technology for Sustainable Development and the 2023 Taiwan-India Exchange Workshop on Sustainable Renewable Energy &amp; Smart Energy Storage Technology.</li><li>Incorporated a registration system and abstract submission functionality using <b>Express JS</b> and <b>MongoDB</b>, and deployed the website to <b>AWS Elastic Beanstalk</b> to ensure efficient scalability and <b>load balancing</b>.</li></ul>	
<b>BECON'23, IIT Delhi E-Summit</b>	Jun 2022 – May 2023
<ul style="list-style-type: none"><li>Developed and managed the <b>registration portal</b>, overseeing the successful registration of more than <b>7000 students</b>. Implemented a user-friendly interface and database system to streamline the registration process and securely store student data.</li><li>Created a comprehensive <b>QR code system</b> and scanner application for efficient entry management.</li><li>Launched the <b>Campus Ambassador website</b>, attracting over <b>500 students</b> and facilitating their engagement as event ambassadors.</li></ul>	

### 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.)