

# 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

- 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

- 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

- 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

- 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

- 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

- 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.)