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, Certifcate 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.)