

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

Software Engineer, Auro Digital [🔗](#) Jun 2024 – present

- Developed a React-based **Order Management System (OMS)** for the **crypto trading** domain, featuring components for order placement, trade history, and real-time market data.
- Integrated **Redux** for efficient global state management and **WebSockets** to enable real-time communication between frontend and backend servers.
- Optimized performance** by addressing rendering, data fetching, and state management bottlenecks, and contributed to the development of an **ultra-low-latency** trading platform using reactive programming.

Full Stack Developer (Internship), Awiros [🔗](#) Apr 2024 – May 2024

- Developed and optimized backend APIs with **Nest.js** and implemented modular frontend components using **Micro Frontends**, enhancing application scalability and maintainability.
- Utilized **Docker** and **Kubernetes** for effective application deployment and management, while ensuring code quality through **TypeScript**, ESLint, Prettier, and rigorous test case execution.

Full Stack Developer (Internship), 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 (Internship), 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 (Internship), 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 **Firestore** for backend integration.
- Deployed on **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