

Sarthak Mishra

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EDUCATION

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK Jan 2024
Master of Science, Computer Science Engineering Buffalo, New York, USA
Relevant Coursework: Machine Learning, Data Models and Databases, NLP, Text Mining, Algorithms

VELLORE INSTITUTE OF TECHNOLOGY May 2022
Bachelor of Technology, Computer Science Engineering Bhopal, MP, India
Relevant Coursework: Operating Systems, Python, Data Analysis, Deep Learning, C Programming

SKILLS

Front End (HTML, CSS, Vercel, Figma, React.js, TypeScript, Vue.js, Tailwind CSS, Wireframing, Vercel)

Back End (JavaScript, Node.js, Flask, Django, REST API, Postman, Firebase, Rust(Basic), AWS EC2)

Databases (MySQL, MongoDB, Postgres, SQLite, Firestore, AWS S3, CodeCommit)

EXPERIENCE

FRONT END DEVELOPER INTERN Nov 2024 to Present
Commotion Remote

- Developed and maintained user interfaces for scalable web applications using **ReactJS** and **TypeScript**.
- Collaborated with designers to translate **Figma** designs into responsive and interactive web components.
- Streamlined version control and deployment workflows utilizing **AWS CodeCommit** for efficient collaboration and code management.
- Managed and tracked project progress through **JIRA**, assigning tasks and monitoring issue resolutions.

SOFTWARE DEVELOPER Jan 2024 to Aug 2024
CSE Dept, University at Buffalo Buffalo, New York, USA

- Developed Ethereum Transaction Viewer, utilizing **Web3.js** to query the Ethereum blockchain and dynamically update the user interface with real-time transactions.
- Designed UI, Wireframing, and Prototyping in **Figma** to ensure a seamless and user-friendly experience, showcasing proficiency in UI design.
- Utilized **ReactJS** to engineer fully functional web applications, ensuring robust and scalable solutions that meet project requirements.
- Implemented **TypeScript** and **Redux** for state management and scalability, enhancing the efficiency and maintainability of the application.
- Employed **lazy loading** (lazy and suspense) techniques to optimize website performance and improve user experience.

SOFTWARE ENGINEERING INTERN Aug 2023 to Dec 2023
Resilience Buffalo, New York, USA

- Successfully developed a **React Native** application catering to **1,500 daily users**, focusing on seamless performance and user experience.
- Implemented advanced voice personalization features by integrating Core ML and **TensorFlow Lite**, ensuring accurate and real-time voice recognition and customization.
- Enhanced app performance and efficiency by utilizing **FlatList** instead of `map()` for rendering large lists, and implemented **lazy loading** techniques to optimize resource usage and improve load times.
- Optimized the app for cross-platform functionality, delivering a consistent experience on both iOS and Android devices.
- Deployed REST API with **Node.js** and **Express**, enhancing app performance by 20% leading to successful SPA interaction.

PROJECTS

VIDCHATTER [GitHub](#) | [Live Project](#)

Developed and deployed **VidChatter**, a web app with a posting system, real-time chat (**Socket.io**), and one-on-one video calling (VidMeet in development) using **ReactJS** (TypeScript), **ExpressJS**, **Firebase** Authentication, and **Firestore** for secure and engaging user experiences.

NOODLE DOCS [GitHub](#) | [Live Project](#)

Built a Google Docs clone enabling real-time collaborative document creation and editing with instant updates using **Socket.io**, featuring a **ReactJS** and **TypeScript** frontend deployed on **Vercel** and an **ExpressJS** backend deployed on **Render** for robust and scalable performance.