

Sankha Subhra Moitra

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Education

St. Thomas' College of Engineering & Technology, Kolkata, India

Bachelor of Technology in Computer Science and Engineering; GPA: 8.56 (2021 – 2025)

Skills

- Programming Languages: JavaScript, TypeScript
- Frontend Development: React.js, Next.js, Tailwind CSS, Redux, Jest
- Backend Development: Node.js, Express.js, Convex, Clerk
- Databases and ORMs: MySQL, Prisma
- Tools and Version Control: Git, GitHub

Professional Experience

Software Engineer Intern — Versality Pvt Ltd (January 2025 – July 2025)

- Developed responsive and accessible web interfaces using React.js, Tailwind CSS, and modern JavaScript (ES6+ features).
- Improved application performance and load times by 20% through code splitting, memoization, and minimizing unnecessary re-renders.
- Integrated REST APIs and managed asynchronous data fetching with fetch, resulting in a 30% enhancement in app data flow and user experience.
- Collaborated with cross-functional teams using Git and GitHub for version control, pull requests.

Projects

NextVibe Notes App | [Live Demo](#) | [GitHub](#)

- Built a full-stack notes application using Next.js 13, React, Convex, and Tailwind CSS, incorporating real-time database synchronization, user authentication, and file management capabilities.
- Designed a modern, responsive user interface with dark and light modes, nested document support, publishing features, and data recovery functionalities for improved user engagement.

Video Chat Platform | [Live Demo](#) | [GitHub](#)

- Created a real-time video calling platform leveraging WebRTC, Next.js, TypeScript, Node.js, and Socket.IO.
- Implemented features including one-click video chat initiation, screen sharing, and stable peer-to-peer connections for seamless communication.

Drawflow App | [Live Demo](#) | [GitHub](#)

- Engineered a real-time collaborative drawing tool using React, Vite, Express.js, and Socket.IO, supporting shapes, layers, colors, zoom, and stroke styles.
- Added advanced features such as drawing export/import, undo/redo functionality, opacity control, and multi-user real-time collaboration to boost usability and teamwork.

YouTube Lite Video Playing App | [Live Demo](#) | [GitHub](#)

- Developed a YouTube-inspired streaming application using React, Redux Toolkit, and Tailwind CSS, with dynamic routing, debounced search, lazy loading, and shimmer UI effects.
- Integrated YouTube API and secured the backend with Express.js, Node.js, Helmet, HPP, and rate limiting to ensure scalability, performance, and security.

codeBunny Code Formatter | [Live Demo](#) | [GitHub](#)

- Constructed a code-to-image generator tool with Next.js and TypeScript, enabling customization and sharing of code snippets for developers.

Achievements

- Solved over 390 problems on LeetCode, earning 3x 50-day badges for consistent problem-solving.
- Solved over 400 problems on GeeksForGeeks, demonstrating strong algorithmic and data structure skills.

Additional Information

Twitter: <https://x.com/38Sankha>

LeetCode Profile: <https://leetcode.com/u/sankhasubhramoitra/>