

Sankha Subhra Moitra

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<https://portfolio.sankha.space/>

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**

Work 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: <https://notevibing.sankha.space/> | GitHub:

<https://github.com/sankha4567/NoteVibe>

- 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: <https://videochat.sankha.space/> | GitHub:

<https://github.com/sankha4567/Video-Chat-Platform>

- 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: <https://drawflow.sankha.space/> | GitHub: <https://github.com/sankha4567/Drawflow>

- 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: <https://youtubelite.sankha.space/> | GitHub:

<https://github.com/sankha4567/YoutubeLite>

- 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: <https://codebunny.sankha.space/> | GitHub:

<https://github.com/sankha4567/CodeBunny>

- 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/>