

SUBHADEEP DAS

Frontend Software Engineer (React.js — Next.js)

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Professional Summary

Frontend Software Engineer with **1.5+ years of experience** building **scalable, high-performance web applications** using **React.js and Next.js**. Specialized in **frontend performance engineering, real-time systems, and media streaming**. Delivered **up to 40% faster load times**, reduced API overhead via **TanStack Query** caching, and built **low-latency real-time and streaming features** using WebSockets, WebRTC, and Video.js.

Professional Experience

Software Engineer (Frontend – React.js / Next.js), WebArt Technology Jul 2025 – Present

- Architected and scaled **Next.js applications (App Router, SSR, SSG)**, improving SEO rankings and reducing **LCP and TTI metrics**.
- Designed and implemented a **real-time chat platform** using **WebSockets and Socket.IO**, enabling instant messaging and live presence.
- Integrated **audio and video calling** using **WebRTC**, handling signaling, peer connection lifecycle, and connection recovery.
- Implemented **Service Workers** for offline caching, background sync, and improved repeat-visit performance.
- Leveraged **Web Workers** to offload CPU-intensive operations, preventing main-thread blocking and UI jank.
- Built **push notification workflows** using **Firebase Cloud Messaging (FCM)** for real-time user alerts.
- Enhanced UI interactions with **GSAP and Framer Motion**, balancing animations with strict performance budgets.
- Optimized frontend performance through **code splitting, lazy loading, memoization, and intelligent caching**.
- Established testing standards using **Jest and React Testing Library**.
- Conducted **code reviews** focusing on performance, accessibility, and long-term maintainability.

Software Engineer, Brainium Information Technologies Pvt. Ltd. Aug 2024 – May 2025

- Developed **15+ reusable React components**, improving delivery speed and UI consistency across modules.
- Implemented **Redux Toolkit, RTK Query, and Zustand** for predictable and scalable state management.
- Integrated **TanStack Query** for server-state handling, significantly reducing redundant API calls.
- Consumed **GraphQL APIs**, implementing schema-driven queries and optimized data-fetch strategies.
- Improved SEO and initial render performance using **SSR and SSG in Next.js**.
- Collaborated in **architecture discussions and peer code reviews** with senior engineers.

Software Developer Intern, Brainium Information Technologies Pvt. Ltd. Apr 2024 – Aug 2024

- Built modular and reusable UI components following **atomic design principles**.
- Assisted in **React to Next.js migration**, improving routing, SEO, and performance.
- Fixed UI bugs and followed **Git-based workflows and PR reviews**.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript
- **Frameworks:** React.js, Next.js (App Router, SSR, SSG)
- **State Management:** Redux Toolkit, RTK Query, Zustand, Context API
- **Data & APIs:** REST, **GraphQL**, Axios, TanStack Query, SWR
- **Real-Time & Media:** WebSockets, Socket.IO, WebRTC, **Video.js (Streaming)**
- **Browser & Performance:** **Service Workers, Web Workers, PWA**, Lighthouse
- **UI & Styling:** HTML, CSS, SCSS, Tailwind, shaden/ui, MUI, Bootstrap
- **Testing & Tools:** Jest, React Testing Library, Cypress, Git, WCAG
- **Cloud:** **Firebase (FCM, Hosting)**, Vercel

Projects

Crypto Tracker Platform Live Demo

- Built a real-time crypto tracker using **React.js**.
- Integrated **CoinGecko API** with **TanStack Query** caching.
- Optimized bundle size using **code splitting**.

Education

M.Sc. in Computer Science, Barrackpore Rastraguru Surendranath College 2020 – 2022
B.Sc. in Computer Science, University of Calcutta 2017 – 2020

Certifications

Namaste React – NamasteDev 2024
Frontend System Design – NamasteDev