

SOUMYA MUKHERJEE

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EXPERIENCE

Router Protocol

Front-end Developer

Remote

Sep 2023 - Sep 2025

- Developed **Nitro explorer**, a cross-chain blockchain explorer, independently architecting and implementing the interface from concept to production. Integrated GraphQL APIs for blockchain data fetching via efficient query patterns and caching strategies to handle high-frequency transaction updates.
- Enhanced multi-chain wallet SDK, **tangled** by integrating Bitcoin, Ton and Near support and implemented optimizations. Integrating multiple blockchain wallets expanded the platform accessibility.
- Optimized transaction flows for cross-chain operations which significantly improved user experience and reduced abandonment rates.
- Collaborated with backend teams to design and implement RESTful and GraphQL APIs, ensuring efficient data transfer between frontend applications and blockchain services.

Router Protocol

Front-end Developer Intern

Remote

May 2023 - Sep 2023

- Developed a gamified NFT application leveraging Router Protocol's cross-chain architecture, enabling users to mint and level up NFTs by bridging between networks.
- Built smart contract integration for a cross-chain lottery system with rewards distribution on Polygon.

EDUCATION

RCC Institute of Information Technology

B.Tech Applied Electronics & Instrumentation Engineering *GPA: 9.4*

Kolkata, West Bengal

Aug 2019 - Jul 2023

Harendra Leela Patranavis School

ISC Science *Percentage: 91.2%*

Kolkata, West Bengal

2017 - 2019

PROJECTS

Nitro Explorer V2

Next.js, React Query, TailwindCSS, Zustand, Typescript, GraphQL

- Independently rebuilt an internal version of Nitro Explorer with a focus on performance and UX, achieving up to 99 Lighthouse performance score (previous max: 65).
- Crafted a blazing-fast explorer experience by implementing a command based search and non-blocking data states to eliminate layout shifts and improve perceived latency.
- Architected GraphQL data layer using React Query for optimistic updates, query deduplication, and automatic cache invalidation across blockchain transaction states.
- The demo currently uses mock data as backend services are going to be sunset soon.

Cracked ui components

React, Typescript, viem

- Developing a comprehensive component ecosystem for web3 applications, accelerating developer integration time by 50-60%.
- Created intuitive chain & token selectors and address QR components used across multiple dApps.
- Implemented responsive design principles ensuring consistent UX across mobile and desktop platforms.

Whispr room

Next.js, Convex, React Query, TailwindCSS, Typescript

- Built a real-time disposable chat app allowing users to create and join temporary chat rooms.
- Integrated Convex as a serverless backend to manage room state and message synchronization.
- Added system messages to reflect user join/leave activity and ensure conversational context.
- Implemented graceful handling for expired rooms to improve user experience.

SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript, TailwindCSS, Responsive Design

Data & APIs: React Query, REST APIs, GraphQL, Real-time data fetching

Web3: Ethers.js, viem, EVM Integration, Wallet Connection APIs

Blockchain networks: Ethereum, Bitcoin, Solana

Backend & Data: Node.js, Express, MongoDB, Convex, GraphQL, Firebase