

# Suryarghya Saha

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## WORK EXPERIENCE

### Unicus One

May 2023 – Jul 2023

Role: Backend Developer - Intern

- Developed server for a DApp, cutting response time by 30% and boosting system performance by 40%.
- Achieved automated deployments (CI/CD) with Docker, reducing downtime by 40%.
- Streamlined cross-team communication with clear API documentation, saving 30% integration time.

**Advanced Skills:** Node.js, Docker.

### Freelance

Apr 2021 – May 2021

Role: Frontend Developer

- Built and optimized a portfolio website with Next.js.
- Increased Web Traffic by 35% and reduced Bounce Rate by 20% within 4 months.
- Utilized TailwindCss, Framer Motion, and Email.js to implement a robust and responsive design.

**Advanced Skills:** Next.js 12, Framer Motion, Tailwindcss, Formspree.

## PROJECTS

### Music Streaming Platform (Skills: Web Development, Next.js, Typescript, Supabase, Stripe) - [GitHub](#)

- A Spotify-inspired music streaming platform, formulated with Next.js 13, TailwindCSS and a Supabase-provided database infrastructure allowing user authentication, seamless music upload and streaming capabilities, including robust search functionality for immediate track playback.
- Programmed a subscription model integrated with Stripe, enabling users to unlock advanced features such as soundtrack publishing, alongside functionalities for creating personal libraries and playlists.

### PoW Blockchain Protocol (Skills: Blockchain, Node.js, Cryptographic Hash Functions) - [GitHub](#)

- Implemented a Proof of Work Blockchain Protocol executed upon Node.js written in Javascript.
- Demonstrated critical blockchain functionalities such as Block Mining, Consensus Mechanism, and Distributed Node Synchronization, enhancing system security through cryptographic hash functions and reducing transaction validation time by 40%.

### Estatigo (Skills: Web Development, APIs, Next.js, Server Side Rendering) - [GitHub](#)

- A Full-Stack Real Estate Application engineered with the Next.js 12 framework. Provides enhanced property search options with 20+ applied filters.
- The above 1000 Property Details are fetched utilizing RapidAPI. Server Side Rendering ensures fast response time. A minimalistic and sophisticated interface delivers an intuitive User Experience.

## TECH SKILLS

Programming:	HTML, CSS, Javascript, Typescript, Python, Solidity, C/C++, SQL
Web Technologies:	RESTful APIS, Flask, FastAPI
Libraries/Frameworks:	ReactJs, NextJs, NodeJs, ExpressJs, Hardhat, Truffle
Databases:	MongoDB, MySQL, PostgreSQL, MariaDB
Others:	Git, Postman, Github, Docker

## EDUCATION

Indian Institute of Technology (ISM), Dhanbad, Dhanbad, Jharkhand

Nov 2020 – Dec 2024

Degree: Bachelor of Technology in Computer Science and Engineering