

# Somesh Banerjee

Kolkata, India

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## PROFFESIONAL SUMMARY

- Full-stack developer with 2.5+ years of experience in developing scalable and efficient software solutions.
- Backend expertise includes Node.js, NestJS, TypeScript, JavaScript, and database management with MongoDB and PostgreSQL. Proven track record in developing RESTful APIs and RPC frameworks.
- Proficient in Solidity and adept at creating smart contracts.
- Skilled in containerization (Docker) and web server configuration (Nginx).
- Strong front-end development skills, utilizing React, Redux, and Tailwind CSS.
- Versatile programming skills in Python, Bash, and C++, with a track record of creating scripts to improve and automate processes.

## EXPERIENCE

**Fullstack Software Engineer**, Teliolabs Communications Inc. | July 2023 - Present

- Transitioned from an intern role to a full-time SDE.
- Worked on projects for Squirrelverse LLC, such as Metaverify, NFT Campaign Shopify app, and Metascreen.
- Developed backend using BFF (Backend for Frontend) architecture, integrating multiple internal microservices and third-party APIs, and managing data with MongoDB for efficient project execution.
- Key contributor to Metaverify and NFT Campaign Shopify app, focusing on backend development and Shopify integration.
- Led backend development and smart contract implementation for Metascreen.
- Advanced ERC721 NFT to support the idea of SoulBound Token.
- Created Bash and Python scripts to improve the development experience.
- Continued to lead RESTful API design for optimized frontend-backend communication, concurrently evolving database tables with business logic for sustained system efficiency.

**SDE Intern**, Teliolabs Communications Inc. | December 2021 - June 2023

- Worked on projects for Squirrelverse LLC.
- Gained experience in PERN stack, including Tailwind CSS, Redux, and Docker.
- Developed ERC721 smart contracts with royalty features for Ethereum and Polygon.
- Implemented database schemas and tables aligned with business logic.
- Designed and implemented RESTful APIs using Express.js.
- Gained familiarity with cloud platforms during project implementation.

## SKILLS

**Programming Languages:** TypeScript, Solidity, C++, Python, Circom, Bash

Proficient in **asynchronous programming** in TypeScript and JavaScript.

**Backend Development:** Nodejs, Expressjs, NestJS, BFF, Microservice

**Database Management:** Specialized in Data Modeling and schema Design and adept with PGSQL, MongoDB, and Redis for versatile and efficient data storage solutions.

**API Development:** RESTful API and RPC design and implementation

**DevOps:** Docker, Kubernetes, Linux

**Blockchains:** Ethereum, Polygon, Hyperledger, zk Proofs

**Frontend Development:** React, Redux, Tailwind

**Collaboration:** Git

**Cloud Platforms:** AWS, Azure

**Languages:** English, Hindi, Bengali

## EDUCATION

**Bachelor of Technology**, *Electronics and Communication Engineering*, IIIT Naya-Raipur | Graduated July 2023 | CGPA: 9.12

**High School**, *Computer Science Maths Physics Chemistry English*, Army Public School Barrackpore | 2019 | Percentage: 94.2%

## CERTIFICATIONS

- Smart Contracts, Coursera, Completed on February 2022
- Algorithmic Toolbox, Coursera, Completed on September 2020
- Operating Systems and You: Becoming a Power User, Coursera, Completed on July 2020
- Blockchain Basics, Coursera, Completed in August 2020
- The Bits and Bytes of Computer Networking, Coursera, Completed in June 2020
- Using Python to Interact with the Operating System, Coursera, Completed in July 2020

## PROJECTS

**Onchain Doc Editor**, Personal Project | MERN, Socket, Solidity, IPFS

- A doc editor with versioning and IPFS as storage using MERN.
- Real-time collaboration feature using Socket.
- Ensures integrity by storing version details on blockchain.

**Hospital-Records-Blockchain**, Hackathon Project | Solidity, Javascript, Reactjs, Web3js, IPFS

- Build a decentralized App on the Ethereum blockchain using Smart Contract, which helps store patient records in IPFS and can be easily accessible to the hospital.
- Developed the Smart Contract using Solidity and Front-end using Reactjs.

**Sealed Bid Auction**, Personal Project | Solidity, Reactjs, Web3js

- PoC for sealed bid auctions on EVM blockchain network using smart contracts to remove the dependency of intermediaries, making the system trustless.
- Developed the Smart Contract using Solidity and Front-end using Reactjs.

**Metaverse Market**, Personal Project | Solidity, Nextjs, Ethers, IPFS

- An NFT Marketplace for ERC721 NFTs on the EVM blockchain using Smart Contract and nextjs.
- The metadata and Image are stored in IPFS.
- Users can create Digital assets and list them for sale, which buyers can buy with Cryptocurrency.

## ACHIEVEMENTS

- **Filecoin bounty winner at HackForTommorrow**: Our team won a sum of 20k at this hackathon organized at Devfolio.
- Won a Ledger Nano S Hardware Wallet in the Tezasia hackathon.
- Was a participant in the Google Cloud Ready Facilitator Program and completed three milestones.

## POSITIONS OF RESPONSIBILITY

- **ClubHead** at Ciphercell(Infosec Club of IIIT-NR) Organized sessions, activities on Information security, and the Capture the Flag event.
- **Organizer and Video Editor** at Scintfic-2k20, a Science Exhibition for school students.

## PUBLICATIONS

- **"Prediction and Recovery of Radio Link Failure Caused by Environmental Factors,"** INDICON, IEEE, Nov 24, 2022
- **"SafeEngine: Fault Detection with Severity Prediction for Diesel Engine,"** R10-HTC, IEEE, Sep 16, 2022
- **"Blockchain and IPFS-based reliable land registry system,"** Security and Privacy, Wiley Online Library · Apr 30, 2022