


Somesh Banerjee

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PROFFESIONAL SUMMARY

Dedicated problem solver and fast learner with a passion for crafting robust architectural solutions. Proficient in backend development, with expertise in languages such as Node.js, Python, and C++. Well-versed in blockchain technology. Versatile skill set extends to frontend development, DevOps, and information security. Eager to explore and contribute to the dynamic field of distributed architectures, seeking opportunities to drive innovation and excellence.

EXPERIENCE

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

- Transitioned from an intern role to a full-time SDE, demonstrating continuous learning and effective application of skills.
- Worked on projects for Squirrelverse LLC, such as Metaverify, NFT Campaign Shopify app, and Metascreen.
- Played a pivotal role in the Metaverify and NFT Campaign Shopify app, focusing predominantly on backend development and seamless integration with the Shopify platform.
- Drove backend development and smart contract implementation in Metascreen, contributing significantly to its technical execution.
- 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.
- Acquired hands-on experience as an intern, showcasing a commitment to professional development in the PERN (PostgreSQL, Express.js, React, Node.js) stack, including proficiency in Tailwind CSS, Redux, and Docker.
- Developed ERC721 smart contracts with royalty features and deployed them in the Ethereum and Polygon networks.
- Contributed to database development, implementing database schemas and tables aligned with business logic.
- Collaborated with the dev team to design and implement RESTful APIs using Express.js, facilitating seamless communication between frontend and backend components.
- Gained familiarity with cloud platforms during project implementation.

SKILLS

Programming Languages: TypeScript, Javascript, Solidity, C++, Python

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

Frontend Development: React, Redux

Backend Development: Nodejs, Expressjs

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 design and implementation

DevOps: Docker, Kubernetes, Linux

Collaboration: Git

Cloud Platforms: AWS, Azure

Languages: English, Hindi, Bengali

EDUCATION

Bachelor of Technology, *Electronics and Communication Engineering*, IIIT Naya-Raipur | Expected Graduation 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

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

- Build an NFT Marketplace for ERC721 NFTs on the Polygon 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.

Map Points, Personal Project | MERN Stack

- Build a platform to store user reviews of a particular spot. The reviews are stored in MongoDB.
- User Authentication is implemented using MongoDB.
- The backend is implemented using NodeJS and Express, and the frontend uses ReactJS.

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.

Crwd-Src, Personal Project | Solidity, Javascript, Reactjs, Web3js, Nextjs.

- Build a decentralized App on the Ethereum blockchain using Smart Contracts to collect funds in ether for various campaigns.
- Developed the Smart Contract using Solidity and Front-end using Reactjs and NextJS.

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