SOMESH BANERJEE

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SUMMARY

- Programmer with **2.5+ years** of experience focusing on blockchain and backend development.
- Proficient in Solidity for developing robust smart contracts.
- Backend experience with Node.js, NestJS, and serverless architecture (AWS Lambda, Step Functions).
- Skilled in database management with MongoDB, PostgreSQL, and Redis for caching.
- Versatile programming skills in Python, Bash, C++ and Rust.
- Exploring zk Proofs and cross-chain Interoperability solutions.

EXPERIENCE

Teliolabs Communications Inc. July 2023 – Present

Software Engineer *Remote*

- Led the design and development of backend systems, implementing smart contracts and web3 solutions.
- Developed a high-performance NFT marketplace that supports secure off-chain payments, optimizing the integration between blockchain and traditional payment systems.
- Developed a serverless solution for a fintech platform to enable dynamic workflows with multiple condition checks, leveraging multiple AWS services for scalable process orchestration.
- Implemented BFF architecture to integrate microservices with third-party APIs, optimized data aggregation with MongoDB, and engineered high-performance RESTful APIs for scalability and efficiency.
- Created automation scripts to improve the development experience.

Teliolabs Communications Inc. Dec 2021 – June 2023

Software Engineer Intern *Remote*

- Worked with the PERN stack, Docker, and Nginx to develop and deploy web apps.
- Designed database schemas, integrated business logic, and leveraged AWS for project deployment.

PROJECTS

AnonVoting | *zk-SNARKS, Circom, Snarkjs, Solidity*

- Proof of Concept (PoC) for an anonymous voting system using zk-snarks and the Groth16 algorithm.
- Enabled anonymous voting on a public blockchain while preserving user privacy.

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

- Developed a real-time collaborative document editor leveraging the MERN stack and Socket.io for seamless multi-user interactions.
- Used IPFS to store documents in a decentralized way and ensures integrity by syncing versions on the blockchain.

Hospital Records | *Solidity, Reactjs, Web3js, IPFS*

- Developed a decentralized App on the Ethereum blockchain using Smart Contract, which helps store patient records in IPFS, making them easily accessible to hospitals.

Sealed Bid Auction | *Solidity, Reactjs, Web3js*

- PoC for sealed bid auctions on the EVM blockchain network using smart contracts to remove the dependency on intermediaries, making the system trustless.

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

- Developed an NFT Marketplace for ERC721 NFTs on the EVM blockchain using Smart Contract and Nextjs, and IPFS is used for storage purposes.

SKILLS

Programming Languages: TypeScript, Solidity, C++, Circom, Python, Bash, Rust
Blockchain: EVM, Smart Contracts, zk Proofs, Chainlink CCIP
Backend Development: Node.js, Express, NestJS, Spring Boot, BFF, Microservice, Serverless
Database Management: PostgreSQL, MongoDB, MySQL, Redis
Cloud & DevOps: Git, Docker, Kubernetes, Linux, AWS
Frontend Development: React, Redux, Tailwind

EDUCATION

IIIT Naya Raipur Graduated July 2023
Bachelor of Technology (CGPA: 9.12 / 10.00)

Army Public School 2019
All India Senior School Certificate Examination (94.2%)

ACHIEVEMENTS

- Won Filecoin bounty at HackForTomorrow for building the best project using IPFS.
- Won a Ledger Nano S Hardware Wallet in the TezAsia hackathon.
- Successfully published research in conferences and a peer-reviewed journal.
- Held leadership roles, including Club Head of an Infosec Club and Organizer of a science exhibition.

CERTIFICATIONS

- CCIP Bootcamp, *Chainlink, Issued via NFT September 2024*
- Smart Contracts, *Coursera, Completed on February 2022*
- Algorithmic Toolbox, *Coursera, Completed in September 2020*
- Blockchain Basics, *Coursera, Completed in August 2020*
- Operating Systems and You: Becoming a Power User, *Coursera, Completed in July 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*