Abhijit Roy

Kolkata, India | +91-9474501583 | dalvath3700@gmail.com | Github | LinkedIn | Medium | Telegram | Twitter

👤 Profile

I am a Tech Entrepreneur with more than 7 years of experience as CTO, Lead/Senior Blockchain Developer & Open-source contributor in various Web3 startups, projects related to Smart contract & Back-end development in NFT, DeFi, Gaming, utility category. I hold multi-chain development experience with leading Blockchain protocols like EVM, EOSIO, Solana, Substrate.

🧊 Blockchain

- Contributed to Opensource projects: Uniswap v2, OpenZeppelin, Telos Blockchain, Substrate runtime & SC ink lang, Rustlings.
- Familiarity with Zero-Knowledge Proof SNARK, STARK, groth16 arithmetic circuits, ZoKrates, Tornado Cash.
- Contributed to DeFi based multi-asset vault management platform – STFX on top of Perpetual, GMX DEX using Foundry tool.
- Have worked on DeFi auto-compounding vault based on Tetu protocol using Foundry with contracts & scripts written using Solidity.
- Wrote contracts for large scale projects like Polygon's native stablecoin, Free energy backed, CustomSwap AMM DEXes, Bonding curve based crowdfunding platform with DAO.
- Have worked on building DEXes inspired from popular DeFi protocols like Uniswap, Curve, Saddle, MakerDAO, Liquity, Yeti, Aave.
- Working on Substrate pallets, Parachain smart contracts.
- Worked on multiple EVM smart contract projects related to ERC20 Token's variants, Vault , Staking, NFT Marketplace, Auction.
- Worked on projects related to on-chain, off-chain NFT projects with ERC721, ERC1155 standards, along with multiple generative, manual asset generation using NodeJS, Solidity, Hardhat.
- Have experience with ERC-2535 Diamond standard & Openzeppelin transparent, UUPS patterns for EVM upgradeable contracts.
- Upside: Worked on smart contracts like Token, Vesting, Staking with auditors from Quantstamp, Certik, Omniscia for clients – Metacraft, Delysium, Mirror world, Opgames, Zedrun, etc. Also, designed & developed an AMM DEX project "Bioform" with MIT. Also, co-authored & led the in-house project - "Zippy" vesting tool.
- Have experience in testing, deployment, flattening, verification, fuzzy-testing, gas optimization (using Yul, Solidity), get contract-size of smart contracts using Truffle, Hardhat, Foundry toolkits.
- Worked on multiple EOSIO smart contract projects like Ride sharing DApp, GPK.Battles (Betting game with RNG Oracle), Tipping, ICO (single/multi phases), Staking, Vault using C/C++, JS/TS.
- Wrote scripts for automatic deployment of large set of Dynamic NFT assets into decentralized storage systems like IPFS, Arweave.
- Master Ventures: I rewrote EVM crowdsale smart contracts for Solana. Supported in launching their substrate parachain using Rust, CLI.
- Built the architecture of GameFi project – "Bowled.io" with play-to-earn gamification model along with different types of cards as NFT.
- Led NFT marketplace projects like Xstrela, VTR Connect, TGE projects like Orasis as Engineering manager. Designed the architecture. Audited the Solidity & Rust codebase alongwith Jira board following Agile methodology.

🖥️ Experience

7+ years

🎓 Education

2014 – B.Tech in Avionics, **IIST**, Trivandrum

💼 Career Timeline

- **2016-2017**: Full-stack Android developer at "BitInfoCoin" (Self project).
- **2018**: Founding CTO at DRIFE.
- **2019-2020**: Freelancing as Web3 Full-stack Engineer
- **2021**: Lead Blockchain Developer at DeFi start-up - "Boot Finance".
- **2021-2022**: Senior Blockchain Engineer (Rust) at Master Ventures
- **2021-2022**: Founding CTO at Theia Labs (DeFi)
- **2022**: Founding Blockchain Engineer at DeFi startup Mojo, Polygon's native stablecoin.
- **2022:** Senior Smart Contract Backend Engineer at Upside.
- **2022-23**: Head of Blockchain Department at Rapid Innovation
- **At present**: Lang: Rust, Solidity, Technology: Madara (Starknet), Substrate, System Design.

👨‍💻 Coding Languages

Rust, Solidity, C++, JavaScript, TypeScript, Python, Java, XML, Markdown

🛠️ Skills

– Developer Skills

Git & GitHub

Technical Documentation

Miro, Freeform, Draw.io

Jira, Linear, Clickup

EVM Solidity

Backend (NodeJS + Rust)

EOSIO C/C++

Coding with AI: Copilot, ChatGPT

Architecture Diagram

☁ Backend

- Developed REST, GraphQL API backend using NextJS API routing for a web3 based automated token, vesting tool. Done
- Fair experience with React, Redux tools.
- Having experience with Databases like Firebase's Firestore, Redis, PostgreSQL, MongoDB for data storage on Google Cloud, Heroku.
- Setup CI/CD in Github Action, Docker for automated testing, packaging of a repo.
- Have experienced with scalable thread-safe APIs for Xstrela App using Actix-web in Rust.

📊 Data Science

- Created a CLI based Data visualization Software - "Autoplot" used in **Indian Space programme**'s requirement, that gives comprehensive analytics as output based on excel data parsed as input.
- Worked on countless data wrangling projects with different data models in relation to Semiconductor industry using Python, Rust.

📱 Product

- As a full-stack developer, I created an Android App - "BitInfoCoin" for web3 space to provide crypto related services like show nearby crypto ATMs, exchanges, crypto price, news feed.
- Created 3 Telegram Bots with EOSIO smart contract & Redis database integrated - Tipping, KYC, Quiz.
- As CTO of Theia, I built the first 2 versions of the web App with smart contracts & cloud database integrated.

🏅 Leadership & Achievements

- Bagged the 2nd rank in SNI Hack 2021 competition as a EOSIO Blockchain Developer (Presenter) for a project "Ceven.Parks"
- Represented DRIFE as CTO in World Blockchain Summit (WBS) held at Dubai in October 2018, where it was ranked as the best start-up in utility tokens category. Recently, the project was appreciated with award from UNESCO for its innovation.
- I also managed the largest Semiconductor community on Telegram via a channel. In future, a blockchain-based Chatbot – 'SEMION' with customized user experience, is promised to be released on Telegram and a subscription fee will be charged for which feedbacks is taken via polls conducted within the community.
- I provide online education services through my Udemy account – Block.Hub Academy which has a total of 300 (approx.) students enrolled for 4 courses to date.
- I also do mentorship, university talks, workshops via 1:1 sessions.
- I have published many thoughtful articles related to Blockchain, Data Science on Medium, LinkedIn.
- I was an acclaimed technical content creator for a developer community called Utopian on Steemit (Steem Blockchain).
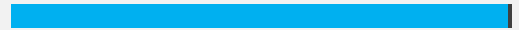
- Inter-personal Skills
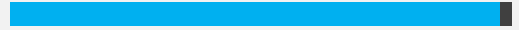
Leadership

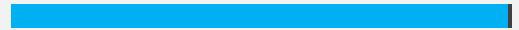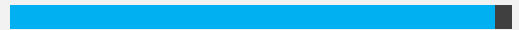Ability to work under pressure

Analytical Skills

Detail-oriented

Multitasking

Problem-solving

Time Management

Teamwork

Hobbies

🏍 💡 🎵 🍽