Blockchain Engineer
VENKATESH RAJENDRAN

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PROFILE SUMMARY

Tech Lead and Blockchain Engineer with **4+ years** of work experience in developing secured smart contracts, backend infrastructures, decentralized applications and has extensive expertise in various blockchain use cases such as **GameFi, DeFi**, **NFTs, Account Abstraction, Governance**, **Web3 Social, NFT Marketplace** and etc.

SKILLS

Blockchain: Smart contracts, Hardhat, Foundry, Anchor, Ethers.js, Security audits, Static analysis, Fuzz & Invariant Testing, Subgraphs, Account Abstraction, EVM, Solana, Alchemy, Moralis, Tenderly and etc.

Backend: Nest.js, Node.js, Express.js, Rocket.rs, GraphQL, MongoDB, PostgreSQL, Redis, AWS, RabbitMQ, etc.

Frontend: Next.js, React.js, Redux, Apollo, Tailwindcss, RTKQuery, Web3 wallet & contract integrations, etc.

Programming languages: Solidity, Rust, Typescript, Javascript, Yul.

WORK EXPERIENCES

OP GAMES | TECH LEAD - FULL STACK WEB3 DEVELOPER   April 2022 - Present

- Built an **AI and Web3 powered decentralised protocol** which makes an **NFT into NPC** for GameFi projects.
- Led the cross functional team on building a **web3 tournament protocol** which enables **crypto payments, token rewards, on-chain tournaments** and various gameplay mechanics for web3 games.
- Architected the **web3 tokenization** models and built an **omnichain ERC20** tokens with various features such as **Staking Rewards**, **Vesting, Token Locks and Governance** via LayerZero stack.
- Built an secured and complex **customizable & equippable NFT** with in-game avatar builder for the gameplay mechanics along with the accumulation of on-chain points and badges via **ERC6551 tokenbound** accounts.
- Performed an **inhouse security audits** and **gas optimization** and coordinated along with external audit teams.
- Architected and built several **off chain infrastructures and data indexers** for our web3 games to support **single player** and **multiplayer** web3 game mechanics.
- Architected and built **autonomous backend systems** with the help of **Chainlink and Account abstraction** to automate on-chain game mechanics, nonce and gas management system with paymasters and user operations.

METAVERSE VENTURES | TECH ADVISOR - BLOCKCHAIN   December 2022 - Present

- Leading the development team on building the **omnichain DeFi swap protocols** which includes **OTC swap, NFT swap and Dex swap** with the help of Zetachain EVM.
- Leading the development team on building a **GameFi protocol** which provides web 3 education, **web 3 social** media for games and various **on-chain quest and rewards** for web 3 game monetization.
- Leading the enitre tech team on various fronts such as **smart contracts, backend and frontend development** to develop innovative web3 applications.

SPRINGWORKS | BLOCKCHAIN DEVELOPER   November 2020 - April 2022

- Led the backend team on building an **on-chain** secondary music concert NFT **ticket selling marketplace**.
- Built a decentralized **on-chain profile and reputation HR system** that tracks and provides proof or attestation of the user's work experience and reputation for employment.

EDUCATION

Bachelor of Engineering - Computer Science

Anna University, 2017 - 2021