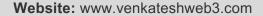
VENKATESH RAJENDRAN

Tech Lead & Blockchain Engineer

Email: rvenki666@gmail.com

Phone: +91 8610203344





PROFILE SUMMARY:

Tech Lead and Blockchain Engineer with 5 years of experience developing decentralized cross-chain protocols, smart contracts, backend, and p2p infrastructures, enabling web3 for over 150,000 users. Proven expertise in building robust infrastructures for GameFi and DeFi, prioritizing security and scalability. Adept at leading cross-functional teams to deliver innovative Web3 solutions across diverse domains, including GameFi, DeFi, NFTs, Account Abstraction, Al Agents, SocialFi, and ZK.

SKILLS:

Blockchain: Solidity, Rust, Yul Assembly, Circom, Zero-Knowledge Proofs, ZKTLS, Foundry, Hardhat, Anchor, EVM, SVM, Static analysis, Fuzzing, Invariant Testing, Gas Optimizations, and Security audits. **Al:** LangChain, LangGraph, ElizaOS, SmolAgents, Coinbase Agentkit, HuggingFace, Al Agents, RAG, Al Embeddings, Chroma, and Qdrant vector stores.

Frontend & Backend: Javascript, Typescript, Rust, Nest.js, Node.js, Express.js, Axum, Tokio, Libp2p, TEE, Websockets, Redis, GraphQL, MongoDB, PostgreSQL, AWS, Next.js, React.js, Ethers.js.

Specialization: Account Abstraction, Smart wallets, GameFi, DeFi, NFTs, ZK Proofs, Chain Interoperability, DAO, Web3 Social, P2P Distributed Systems and Al Agents.

WORK EXPERIENCES:

OP GAMES | TECH LEAD - FULL STACK WEB3 DEVELOPER

April 2022 - Present

- Developing a **decentralized AI coordination protocol** using **Libp2p** to empower AI agents to autonomously collaborate and execute **AI agent intents** for both on-chain and off-chain requests.
- Creating a Living Game Engine paired with an Agentic game developer to design self-evolving games and adapt existing ones, tailored to the economics and interests of the gaming ecosystem.
- Led the cross-functional team in developing a multichain decentralized tournament protocol, empowering indie game developers to create 100+ Web3 games using our robust infrastructure.
- Architected **off-chain infrastructure** to efficiently manage **single-player and multiplayer** tournament gameplay, resulting in a **30%** performance improvement in concurrent gameplay.
- Designed blockchain data indexers to index on-chain events for tournaments and games, enhancing the gameplay experience for over 10,000+ users.
- Directed in-house **security audits and gas optimization** for smart contracts, achieving a **50**% reduction in gas consumption and a **23**% decrease in bugs and vulnerabilities before external audits.
- Developed Web3 tokenization models and implemented an omnichain ERC20 token contract compatible with 20+ EVM chains, featuring Staking Rewards, Vesting, Token Locks, Airdrops, and Governance through the LayerZero stack.

- Led the creation of a customizable and equippable Avatar NFT smart contract with a supply of 6666
 NFTs and built an in-game avatar builder, allowing users to equip from 35,000 unique NFT variants.
- Architected autonomous systems leveraging Chainlink and Account Abstraction to automate onchain and backend game mechanics, including gas and nonce management with paymasters and user operations resulting in 38% improved worker concurrency and fault tolerance.
- Collaborated with guild community teams to establish Game Jams and successfully onboarded over
 80+ games with integrated Web3 and crypto features.

M0 VENTURES | TECH ADVISOR & LEAD - BLOCKCHAIN

December 2022 - Present

- Establishing a decentralized, user-owned DataHub or DataDao within the Vana Ecosystem, allowing users to contribute data securely via ZKTLS and sell it to data-driven applications and Al training, all while ensuring privacy and full control.
- Led the cross-functional teams in developing various cross-chain DeFi protocols, enabling market
 makers to provide unified liquidity across 5+ blockchains, including BTC and EVM chains.
 Currently, this product supports over 1,000 cross-chain swaps in the testnet environment.
- Guided development teams across multiple domains, including smart contracts, backend, and frontend development, to create innovative Web3 applications such as a Web3 GameFi marketplace and Web3 social platforms.

SPRINGWORKS | BLOCKCHAIN DEVELOPER

November 2020 - April 2022

- Collaborated with the development team in creating decentralized on-chain identities for over
 150,000 users, enabling them to transparently showcase their Web3 experience to companies and communities.
- Architected a suite of microservices-based backend systems to efficiently deliver diverse onsite services to 100,000 users, ensuring scalability and reliability.

EDUCATION

Bachelor of Engineering - Computer Science

Anna University, 2017 - 2021