Dez Calimese

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Summary

- Founding Engineer at Omo Protocol, leading smart contract development for standardized ERC4626 vaults, frontend engineering, and advanced AI agent integrations—contributions that helped secure over $1M in pre-seed funding.

- Principal UI/UX Engineer at Bricks Exchange, managing a 4-person dev team through reviews, mentorship, and deployment oversight.

- CTO at Minting Melodies, driving end-to-end blockchain application development, test automation, and infrastructure reliability.

Work Experience

Omo Protocol • Remote   *11/2023 — 11/2025*
Founding Engineer

- Architected and implemented ERC4626 standardized vaults using Solidity and Foundry, and contributed to Neko—a trading platform for spot and perpetual futures on Hyperliquid with integrated DeFi vaults—built with Next.js, Tailwind CSS, and TypeScript

- Developed a multi-chain transactions plugin for ElizaOS leveraging Lit Protocol's Programmable Key Pairs and threshold cryptography, enabling secure decentralized key management for AI agents

- Developed Python scripts leveraging Coinbase MPC Wallets to enable AI agents to execute DeFi strategies across Morpho, Uniswap, and Omo's native contracts

- Authored Rust integrations using the Nucleus SDK to enable AI agents on Hyperliquid to interact with on-chain primitives including AMMs, liquid staking, and lending protocols

- Implemented Tenderly's Virtual Testnet framework and testing methodologies, resulting in a 50% increase in testing efficiency and improved contract reliability

Bricks Exchange • Remote   *11/2022 — 11/2024*
Lead Blockchain Developer

- Lead a team of four frontend developers as the principal engineer responsible for UI/UX development

- Onboarded and trained three junior frontend developers, providing code reviews and mentoring to improve team skills, resulting in 25% faster delivery timelines

- Collaborated cross-functionally with backend engineers, smart contract developers, and security analysts to design, code, and thoroughly test numerous blockchain applications, emphasizing clear communication and relationship building

- Developed project plans and timelines for frontend development initiatives using Next.js, React Native for Web, TypeScript, JavaScript, Wagmi, Viem, and TailwindCSS, focusing on delivering intuitive and appealing UIs within established deadlines

- Leveraged agile methodologies like Scrum and Kanban using project management tools like ClickUp to plan, track progress, and collaborate through all phases of the software development life cycle from conception to deployment

Minting Melodies • Remote   *08/2022 — 02/2023*
Chief Technology Officer

- Provided technology leadership and support through the development of smart contracts, landing pages, and internal infrastructure to empower artists in creating NFT collections and streamlining royalty distribution

- Optimized royalty distribution through smart contracts, automating 80% of the process

- Established test automation pipelines to support debugging and issue resolution, emphasizing thorough testing and review

- Contributed high-quality code through rigorous processes, remaining focused on meeting project timelines and objectives

- Stayed current with emerging blockchain protocols and assets to inform effective smart contract deployment, development, and testing

Staking App Project • Remote   *07/2022 — 08/2022*
Software Engineer

- Developed a decentralized staking application enabling users to deposit, withdraw, and earn interest through the staking contract, meeting project timelines and requirements

- Performed full-stack engineering tasks encompassing design, coding, and testing while adhering to protocols and focusing on stakeholder collaboration

- Collaborated across technical disciplines to create blockchain applications, including configuration, deployment, and software component integration

- Utilized various programming languages and frameworks, such as Solidity, Hardhat, and Scaffold-Eth, to design and implement systems

RSVP Decentralized App Project • Remote   *07/2022 — 08/2022*
Software Engineer

- Created a decentralized RSVP application, facilitating event creation and RSVPs with innovative solutions

- Conducted extensive research to adapt to new technologies necessary for project requirements and specifications

- Proficiently used various software tools and frameworks, including Solidity, Hardhat, Next.js, Tailwind, GraphQL, and Web3Storage

- Stayed current with industry trends, especially in blockchain technology, and integrated emerging development methods into the platform

- Extracted and leveraged data insights from various sources to drive innovative application development solutions, adhering to service level agreements and defined metrics

ConsenSys Bootcamp — MultiSig Wallet Project • Remote   *09/2021 — 01/2022*
Software Engineer

- Developed a multi-signature wallet system, enabling secure transfers with approval from listed accounts on the approvers' list using Solidity, Truffle and React

Decentralized Exchange Project • Remote   *05/2021 — 06/2021*
Software Engineer

- Built a decentralized order-book exchange enabling custom ERC-20 token trading using Solidity, Truffle, React, and Bootstrap.

Security Training & Certifications

- RareSkills Advanced Solidity Bootcamp — Gas optimization, EVM internals, security patterns

- Secureum Smart Contract Security Bootcamp — Advanced vulnerability patterns, formal verification concepts, audit methodologies

- Encode Club Bootcamps: Expert Solidity, Move (Aptos/Sui), Cairo/StarkNet

- ConsenSys Academy Ethereum Smart Contract Developer Bootcamp

- Ackee Blockchain Solana Auditors Bootcamp

Skills & Interests

Smart Contracts & Security: Solidity, Foundry (fuzzing/invariant testing), Hardhat, EVM internals, gas optimization, MEV protection, threat modeling, security audits, formal verification concepts

Languages: Solidity, Rust, TypeScript, Python, Move, Cairo, SQL

Multi-Chain & Infrastructure: Threshold cryptography (Lit Protocol), cross-chain messaging, bridging protocols, off-chain relayers, RPC optimization, transaction simulation

Protocols & Tools: ERC4626 vaults, Uniswap, Morpho, Hyperliquid, Tenderly, Subgraphs, Docker, AWS, Linux

Frontend: Next.js, React, Wagmi, Viem, web3.js, TailwindCSS

Interests: Architecture, Abstract Art, History, Basketball, Football, Soccer, Traveling, Fitness

Education

Cardinal McCarrick High School • South Amboy, NJ
HS Diploma