LANCE MULLINS

Senior Blockchain Engineer

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SUMMARY

Senior blockchain developer with over **6 years** of experience in software development, developed, tested, audited, and deployed smart contracts for the **Web3 gaming ecosystem** including **NFT marketplaces**, **token contracts**, **bridges**, **DEX infra**, **account abstraction**, and **chain abstraction**, successfully launched **DeFi protocol** for Web3 gaming using custom **tokenomics** and **ICO/IDO**.

SKILLS AND ABILITIES

➢ Solidity, Rust, Javascript, Typescript, Golang, Python, C++
➢ Hardhat, Foundry, Web3.js, Ethers.js, OpenZeppelin, Solana CLI, Anchor, SPL-Token
➢ Tokenomics, Biconomy SDK, NEAR Protocol, Proxy, Mythx, Slither
➢ HTML5, CSS, React, NextJS, Express.js, Node.js, NestJS, MongoDB
➢ BFT, Consensus(dPoS, PoW, PoC), Cryptography, MEV, P2P Cross Chain, zkSnark, Rollup, Agile, AWS, Github Actions

EXPERIENCE

EvaCodes | Senior DeFi Engineer (Solidity/Rust) | Middletown, DE | July 2021 – June 2024

➢ Architected and developed 30+ **decentralized applications** (dApps) and **smart contracts** including **token bridges**, **staking**, **lending** and **auction** platforms for **Multi NFT marketplace** using **Solidity/Rust/Go/JS/TS** and **Web3.js/Ethers.js**.
➢ Designed and implemented **tokenomics** models for Web3 gaming ecosystem using **various protocols** as a DeFi researcher, ensuring a **balanced ecosystem** of stakeholders, flows and incentives.
➢ Designed and developed the **DEX infrastructure** using **concentrated liquidity** in **Uniswap V3**, working closely with a diverse team of game developers, designers and product managers.
➢ Developed **rust smart contracts** for Web3 gaming platform using **Solanan CLI**, **Anchor** and **SPL-token package** and deployed to **Solana** blockchain.
➢ Took part in developing **account abstraction** for **gasless transactions** using **ERC-4337** standard and **Biconomy SDK**.
➢ Improved user experience with **chain abstraction**, using **NEAR contract** and chain signature without any bridge contracts.
➢ Conducted thorough, in-depth security **audited** 50+ smart contracts for DeFi and Web3 platforms to identify **vulnerabilities**, risks and **gas optimization** using **Mythx** and **Slither.**

- ➢ Actively engaged in peer **code reviews** and provided assistance to fellow engineers using **Git** and **GitHub**.
- ➢ Helped the development team by answering **technical questions** and took responsibility for **solving** any engineering **issues**.

Blur.io | Web3/Smart Contract Developer | San Francisco, CA | October 2019 – June 2021

- ➢ Spearheaded the development of an innovative **NFT marketplace API** using **React**, **Next.js**, **Node.js**, **Express.js**, and **Web3/Ethers.js**, incorporating features like user authentication, secure digital **wallet integration**, interactive NFT listings, and an **auction** and **bidding** system, which significantly boosted the company's revenue by 25% within the first year of operation.
- ➢ Utilized **IPFS** for **decentralized storage** of **NFT metadata** and assets, ensuring immutability and persistence of digital content.
- ➢ Participated smart contracts development for secure and transparent **management** of **NFT ownership**, **transfers**, and **royalty distribution**, using **Solidity** and **ERC20**, **ERC721**, **ERC721A**, **ERC1155**, **ERC4626** from **OpenZeppelin** libraries.
- ➢ Implemented **gas optimization techniques**, **storage slots functionality**, and how different operations within the smart contract affect the transaction costs.
- ➢ Experienced with **upgradeable** contracts, including knowledge of **UUPSProxy**, **Beacon Proxy**, **Diamond Proxy** and Transparent Proxy patterns.
- ➢ Tested **unit/integration/fuzz testing** and deployed smart contracts with blockchain development tools - **Hardhat** and **Foundry**.

Intellecy | Full Stack Intern/Developer | San Diego, CA | April 2018 – June 2019

- ➢ Built cross-browser compatible, responsive SPAs using **React**, **Redux**, **TypeScript** and **Node.js** to provide seamless user experiences.
- ➢ Implemented design patterns, and created **reusable components**, **optimized frontend** through code splitting technique by **Webpack**, **caching strategies**.
- ➢ Successfully transitioned the current codebase, including legacy **jQuery** plugins, into modern **ES6+ JavaScript components** and **libraries**.
- ➢ Collaborated closely with design teams, translating **Figma designs** or **PSD** designs into **pixel-perfect**, **responsive** web interfaces.
- ➢ Implemented **TDD** practices, leading to a 50% decrease in defect rates, enhanced **code quality**, and strengthened team collaboration and knowledge exchange.
- ➢ Created **REST API** by using **Node.js**, **Express.js**, and **Laravel** to create a server environment.
- ➢ Boosted **system performance** through the development of a **well-structured database schema** and **query optimization**.
- ➢ Participated in **Agile** methodology for application development and used **JIRA** as a project management tool.

EDUCATION

University of Texas at San Antonio - San Antonio, TX   **April 2012 – March 2018**

Master's Degree in Computer Science