

Yusuf Lawal

Principal Core Blockchain Engineer - EVM Expertise

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Skills

- **Languages:** HTML/CSS, JavaScript, TypeScript, Solidity, HTML
 - **Frontend Frameworks & Libraries:** Next.js, React, Tailwind CSS, SCSS/SASS, Wagmi, Viem
 - **Data Handling:** Prisma ORM, TanStack Query, Firebase, Mongoose, Neon DB, MongoDB, Sanity.io
 - **Backend & Development Tools:** Node.js, Express.js, Foundry, Ethers.js, Alchemy, chainlink, Git, Docker, VS Code
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Projects

Decentralized Finance (DeFi) Stablecoin Protocol

<https://github.com/YusufsDesigns/Decentralized-Stablecoin>

- Developed a stablecoin pegged to the US dollar, leveraging wrapped Ethereum (wETH) and wrapped Bitcoin (wBTC) as collateral at a 200% collateralization rate.
- Utilized Foundry to write robust fuzz tests and invariant tests, ensuring protocol security and stability.
- Designed an optimized collateral liquidation mechanism to maintain peg stability under volatile market conditions.

Automated Smart Contract Lottery (Raffle System)

<https://github.com/YusufsDesigns/Smart-contract-lottery>

- Designed and developed a decentralized raffle contract allowing users to participate by depositing \$5 worth of ETH, ensuring secure and transparent entry.
- Integrated Chainlink VRF (Verifiable Random Function) to generate verifiable randomness in winner selection, ensuring fairness and transparency
- Automated contract execution using Chainlink Automation, removing the need for manual intervention in checking raffle status and selecting winners.

Airdrop Contract with Merkle Trees

<https://github.com/YusufsDesigns/Merkle-Airdrop-Contract>

- Developed a gas-optimized airdrop contract using Merkle trees and Merkle proofs for efficient and secure eligibility verification, ensuring minimal on-chain computation and reduced gas costs for users.

- **Engineered a signature-based claim delegation system**, allowing third parties to delegate claims on behalf of users, and integrated **transaction fee sponsorship** to optimize user experience and reduce costs.

Experience

JAM-Forte Technologies Ltd – Frontend Developer Intern

08/24 - Present

- Developed a campaign management system, enabling users to efficiently set up election processes, manage candidates, roles, and users, and create events, polls, and town halls—enhancing election organization speed and user engagement. Collaborated with backend developers to integrate APIs and streamline data flow, improving system efficiency.
- Designed responsive, user-friendly interfaces with Next.js, React, and Tailwind CSS, significantly enhancing user engagement and resulting in a notable increase in interaction and session duration.
- Developed a platform that unified access to over 40,000 instruments across asset classes in a single account, simplifying the trading process and improving efficiency.
- Optimized code using Next.js and TypeScript, reducing page load times by 25% and enhancing site performance, resulting in faster access and lower bounce rates.