Aminu Abubakar

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PROFILE

Blockchain developer focused on protocol design and smart contract architecture. I design and build complete onchain systems from contract logic to deployed frontends.

PROJECTS

StreamWage, On-Chain Payroll Protocol

Solidity · Foundry · OpenZeppelin · wagmi · viem · Next.js · Hoodi Testnet

- Designed and deployed a prefunded ETH payroll protocol where employers deposit upfront and workers accrue earnings in real time, claimable at any time without intermediaries.
- Implemented a beacon proxy factory pattern using OpenZeppelin's UpgradeableBeacon, enabling protocol-wide upgrades across all deployed payroll instances from a single transaction.
- Built bespoke accrual and two-phase settlement logic in Solidity, handling edge cases around pausing, worker migration, and partial-period claims.
- Wrote a terms negotiation system between employers and workers and integrated EIP-712 typed signatures for authorization.
- Wrote a Foundry test suite covering unit, beacon upgrade, and stateful invariant fuzz tests enforcing treasury conservation across arbitrary operation sequences.

Live: **https://streamwage.ameenme.dev**

LuckyVault, No-Loss Lottery Protocol

Solidity · ERC-4626 · Chainlink VRF · Chainlink Automation · Aave · Compound · Morpho · Foundry

- Built a no-loss lottery protocol where users deposit USDC into an ERC-4626 vault, yield is routed through pluggable adapters (Aave, Compound, Morpho), and a Chainlink VRF-selected winner claims the accumulated yield each round.
- Implemented principal/yield separation so depositor funds are always fully withdrawable regardless of prize draws.
- Designed a soulbound ERC-721 ticket system (EIP-5192) with weighted randomness proportional to deposit size.
- Integrated Chainlink Automation for trustless round closing and Chainlink VRF v2.5 for verifiable winner selection.
- Conducted a self-audit identifying and resolving 12 distinct vulnerabilities across vault, prize pool, adapters, and NFT contracts, documented in a structured findings report.

Live: **https://github.com/aegonmyy/erc4626**

NexusVoteRegistry, Cross-Chain Governance Integration

Solidity · Foundry · EIP-712 · Uniswap · Compound · Aave · Arbitrum · Optimism · ENS

- Built a cross-chain governance registry enabling vote delegation and proposal interaction across Uniswap, Compound, and Aave protocols.
- Implemented EIP-712 domain separator and typed signature verification.
- Integrated cross-chain messaging across Arbitrum, Optimism, and ENS for multi-network governance participation.

Live: **https://nexus.ameenme.dev**

Grinnish, SaaS Study Platform

Next.js 15 · TypeScript · Supabase · PostgreSQL · Gemini Integration

- Built a full SaaS study platform with authentication, user dashboards, admin console, REST APIs, and Supabase Row Level Security policies.
- Integrated Gemini AI for syllabus generation, streaming tutor responses, and prerequisite analysis.
- Implemented streak tracking, notifications, question-of-the-day logic, bookmarks, and a support chat system.

Live: **https://grinnish.ameenme.dev**

TECHNICAL SKILLS

Smart Contracts: Solidity 0.8.x, OpenZeppelin (upgradeable, access control, ERC standards), beacon proxy pattern, EIP-712, ERC-20, ERC-721, ERC-4626, ERC-1155, gas optimization.

DeFi Protocols: Aave, Compound, Morpho (yield adapters), Chainlink VRF v2.5, Chainlink Automation, Uniswap governance.

Testing & Tooling: Foundry (forge, cast, anvil), unit testing, invariant testing, fuzz testing, mock contracts.

Frontend & Integration: wagmi v2, viem, ethers.js, MetaMask, WalletConnect, Next.js 15 App Router, TypeScript, Tailwind CSS.

Backend & Database: Supabase, PostgreSQL, Row Level Security, REST APIs, Node.js.

Networks: EVM-compatible chains (Ethereum, Arbitrum, Optimism, Polygon...).

EDUCATION

Ahmadu Bello University, Zaria — Bachelor of Engineering, Mechatronics **2025 – 2029**