

Rozales M. ASSIMPAH

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Full Stack Blockchain Developer

PROFESSIONAL EXPERIENCE

Smart Contract Developer

May 2024 - June 2024

Llamas x World ID x Scroll – Remote

- Integrated the World ID State Bridge with the Scroll Bridge to enable cross-chain communication.
- Propagated new Merkle tree roots from the WorldIDIdentityManager contract on Ethereum to Scroll, following implementations from Optimism, Base, and Polygon PoS.
- Added tests to simulate xDomainMessageSender and validated the origin of calls via the ScrollStateBridge.
- Developed deployment scripts using Forge to automate processes.

Smart Contract Developer

September 2023 - December 2024

CDK LxLy x RocketPool Investment Manager – Remote

- Modified the LxLy bridge to allow ETH staking with RocketPool via a new InvestmentManager role.
- Developed features to move funds (ETH or ERC-20) between LxLy and RocketPool, and calculate excess yield.
- Implemented methods like invest() and redeem() to manage fund allocation based on reserve thresholds and target yield.
- Added ETH staking functionality with Lido for the LxLy bridge via the InvestmentManager role.
- Developed invest() and redeem() functions for optimized ETH movement between LxLy and Lido based on reserve percentages and target yield.
- Automated excess yield management and fund allocation via smart contracts.

Smart Contract Developer

June 2023 – August 2023

Polygon x Lens x TokenBound – Remote

- Integrated GoPlus Security's API suite into GemachAI - Alpha Intelligence to enhance Web3 infrastructure security.
- Fully (Frontend-Backend) developed DATA (Decentralized Autonomous Trading Agents), a groundbreaking concept where AI-driven agents operate autonomously to perform a variety of economic activities on the blockchain.

Full Stack Developer

June 2023 – present

Gemach DAO

- Integrated GoPlus Security's API suite into GemachAI - Alpha Intelligence to enhance Web3 infrastructure security.
- Fully (Frontend-Backend) developed DATA (Decentralized Autonomous Trading Agents), a groundbreaking concept where AI-driven agents operate autonomously to perform a variety of economic activities on the blockchain.
- Built a full-stack DeFi AI assistant platform using Next.js, NestJS, and AI/ML technologies to provide intelligent blockchain interactions.
- Developed a custom AI middleware and prompt system to handle complex DeFi operations like token swaps, lending, and portfolio management.
- Implemented real-time blockchain data streaming and wallet integration using Web3 libraries and smart contract interactions.
- Created responsive UI components with TailwindCSS for displaying token information, transaction details, and DeFi protocol interactions.
- Built a Redis-backed caching system for improved performance and reduced API calls to blockchain nodes.
- Integrated multiple DeFi protocols and tools including lending platforms, DEXs, and yield optimization strategies.

EDUCATION

Bachelor of Science – BS Computer Science and Engineering | Our Lady of the Church Graduate School of Administration

Lomé - Togo 2023

EXPERT-LEVEL-SKILL

- Blockchain Development: Solidity, Smart Contracts, Hardhat, Foundry
- Frameworks & Tools: NextJs, Tailwind CSS, NestJs, Ethersjs
- Programming: JavaScript, TypeScript, Python
- Development Tools: Git, GitHub, CI/CD, Docker