

JEFFERY ADU QUAYE AKORFUL

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PROFESSIONAL SUMMARY

Blockchain Engineer specializing in EVM smart contract development, DeFi protocol design (lending, staking, cross-chain), and security-first Solidity engineering. Experienced building and testing production-grade protocols with Foundry (unit, fuzz, invariant), integrating cross-chain messaging via LayerZero, and applying access-control and oracle-safety patterns to mitigate reentrancy, DoS, and manipulation risk. Background in SOC analysis and incident response reinforces an auditor's mindset carried through the full development lifecycle.

EDUCATION

Kwame Nkrumah University of Science and Technology — Kumasi, Ghana

BSc. Computer Engineering — September 2025

EXPERIENCE

Really Great Tech (RGT) — Hybrid — *Blockchain Engineer* Dec 2025 – Present

- Designed and implemented lending and staking DeFi protocols on EVM chains — collateral management, interest-rate logic, and reward-distribution mechanisms — with an emphasis on gas efficiency and audit-readiness.
- Integrated the LayerZero cross-chain messaging protocol to enable secure asset and state transfers across multiple EVM networks, building message validation and replay-protection safeguards into bridge integrations.
- Built and maintained backend services and custom on-chain indexers to track protocol events, contract state, and user positions in real time, powering internal dashboards and automated protocol operations.
- Authored unit, fuzz, and invariant test suites in Foundry across lending, staking, and cross-chain modules, catching edge cases in reward math, token accounting, and reentrancy paths before deployment.
- Contributed to architecture decisions on governance mechanisms, treasury structure, and access-control frameworks across multiple production DeFi and DAO systems.

Npontu Technologies — Hybrid — *Intelligent Systems Intern* Oct 2024 – Dec 2024

- Built a real-time data pipeline streaming database changes from MySQL/PostgreSQL into Kafka via Kafka Connect and Debezium, with Filebeat/Logstash log ingestion into Elasticsearch.
- Fine-tuned a Gemini NLP model for a customer-support chatbot and deployed the full-stack application with OAuth authentication using Docker and Railway.

National Information Technology Agency — On-site — *SOC Analyst Intern* Sep 2023 – Dec 2023

- Monitored and analyzed security alerts across SIEM tooling and live network traffic, performing log analysis to identify indicators of compromise.
- Investigated and helped resolve security incidents — including malware infections, phishing attempts, and unauthorized access — applying threat-intelligence findings to strengthen detection capabilities.

PROJECTS

NoxEscrow — *Solidity · ETH Sepolia · Intel TDX Confidential Computing · ERC-7984 · Gemini 2.5*

- Built a confidential, milestone-based freelance escrow protocol on ETH Sepolia using the iExec confidential computing layer, encrypting contract terms, deliverables, and chat history off-chain with verifiable on-chain pointers.
- Implemented ERC-7984 confidential wrapped-token (cUSDC) payments so escrow budgets and balances remain private on-chain, rather than publicly visible as with standard ERC-20 transfers.
- Designed an autonomous AI dispute-arbitration flow: a Gemini 2.5 Flash arbiter runs inside an Intel TDX trusted execution environment with scoped, access-controlled read permissions to evaluate deliverables and trigger deterministic release or refund via smart contract.

LockVault — *Solidity · Foundry · ERC20 · ERC721 · Chainlink · React/TypeScript*

- Engineered a decentralized ERC20 staking protocol with time-locked deposit tiers (30/90/180 days), dynamic VaultToken (VTK) reward calculation, and staged mulDiv operations for overflow-safe precision math.
- Implemented a soulbound MembershipNFT system (Bronze/Silver/Gold) with IERC4906-compatible metadata and tiered reward multipliers automatically minted to high-volume stakers.
- Applied a security-first architecture — CEI pattern, Ownable2Step access control, SafeERC20 wrappers, Chainlink oracle staleness checks, and per-user stake caps — to mitigate reentrancy, DoS, and oracle-manipulation risk.
- Built a React/TypeScript frontend with WalletConnect integration; deployed and verified all contracts on the Sepolia testnet.

SKILLS

- Blockchain & Web3:** Solidity, Foundry, Hardhat, EVM Chains, LayerZero, DeFi Protocol Development (Lending, Staking, AMMs), Cross-chain/Bridge Architecture, Smart Contract Security & Auditing, OpenZeppelin, Chainlink Oracles, ERC-20/721/1155/7984, Ethers.js.
- Backend & Infrastructure:** On-chain Indexers, Backend Architecture, AWS, Docker, Kafka, Elasticsearch, Logstash, Filebeat.
- Security:** SIEM, Threat Intelligence, Log Analysis, Incident Response, Network Traffic Analysis.
- Frontend & Other:** React, TypeScript, WalletConnect, Figma, Distributed Systems.

CERTIFICATIONS

Google Cybersecurity Professional • AWS Academy: Cloud Architecting, Cloud Developing, Cloud Operations, Cloud Foundations