KIARI ABDELKADER

Senior Solidity & EVM Engineer | 5 Years | Cross-Chain DeFi Architecture

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Live Contract: Portal Token (PTB) — Ethereum Mainnet ✓

Summary

Senior Solidity Smart Contract & EVM Engineer with 5 years building production DeFi protocols. **Complete technical owner** of Portal to Bitcoin's ($110M+ funded) EVM infrastructure. Designed HTLC-based atomic swap protocol and orderbook DEX architecture from scratch. **Zero exploits** across **15 mainnet contracts** since November 2025 launch. Testnet: **14M+ swaps, 400K peak daily transactions**, 750K active wallets. Achieved **70-80% gas reduction** through full codebase redesign. Deep expertise in orderbook systems, non custodial architecture, cross-chain protocols, and MEV resistant design.

Technical Skills

Smart Contracts: Solidity (0.8.x), Smart Contract Development, Yul/Inline Assembly, EVM internals, Gas & Storage optimization, Upgrade patterns (UUPS, Transparent, Diamond)

Protocol Design: HTLC Atomic Swaps, Orderbook DEX, Non-Custodial Cross-Chain Bridges, Liquidity Management, Validator Staking Systems

DeFi Protocols: Uniswap v2/v3, AMM mechanics, ERC-6909, ERC-4626 (Tokenized Vaults), ERC-4337 (Account Abstraction)

Security & MEV: MEV-aware design, Reentrancy protection, Flash loan vectors, Slither, MythX, Echidna, Fuzz & Invariant testing

Testing & Tooling: Foundry (Forge/Cast/Anvil), Hardhat, 95%+ code coverage, OpenZeppelin, Gnosis Safe, Chainlink Oracles

Chains: Ethereum Mainnet, Arbitrum, Portal Chain, Layer 2 solutions

Languages & Infra: TypeScript, Python, Ethers.js, Viem, Web3.js, Git, CI/CD, Tenderly, Infura/Alchemy, IPFS

Familiar With: Zero-Knowledge proof concepts, Uniswap v4 hooks architecture

Deep Expertise:

- **On Chain Orderbook DEX**. Designed and implemented Portal's production orderbook architecture: limit/market orders, matching engine logic, state management. Replaced legacy AMM system achieving 70-80% gas reduction.
- **HTLC Cross-Chain Atomic Swaps**. Built trustless swap protocol enabling non custodial cross chain operations. 14M+ swaps executed on testnet. Full user asset control maintained throughout flow.

Security Track Record

- **Zero exploits** since mainnet launch (November 2025). **15 contracts** across Ethereum and Portal chain with no security incidents in 3+ months of production.

- **Led codebase through third-party security audit**. Only 6 findings total, all resolved within 24 hours. Managed full audit lifecycle: scoping, remediation, verification
- **95%+ test coverage** with comprehensive **fuzz testing and invariant testing** on all production contracts
- Established security-first development culture at Blockcerts; **conducted internal audits** across engineering team

Professional Experience

Senior Solidity & EVM Engineer — Portal to Bitcoin

$110M+ funded non-custodial cross-chain DeFi protocol. Technical owner of all EVM smart contracts.

Jan 2024 – Present

- **Deployed 15 contracts to mainnet** (4 Ethereum, 11 Portal chain) with zero issues: TGE September 2025, full protocol November 2025, **zero exploits since launch**
- **Designed** and developed **on-chain orderbook DEX architecture**. Market/Limit orders, matching logic, state management. Replaced legacy AMM system achieving 70-80% gas reduction
- **Built HTLC based atomic swap protocol** for trustless cross-chain operations. Non custodial architecture; **14M+ testnet swaps, 400K peak daily transactions**, **750K active wallets**
- **100% Solidity codebase ownership**: sole code reviewer for all Solidity PRs, primary technical decision maker for EVM architecture, mentor to 4 engineers on EVM related topics.
- **Implemented Gnosis Safe** integration for all **deployment and operational transactions**. Batch transaction scripts enabling secure multisig operations across mainnet deployments
- **Built complete DeFi stack**: cross chain gateway, liquidity management, validator staking, rewards/penalties. All with 95%+ test coverage, fuzz testing, and invariant testing
- **Implemented ERC-6909** multi-token standard for on chain accounting

Solidity Engineer — Blockcerts

Feb 2022 – Jan 2024

- Progressed to leading strategic blockchain initiatives; mentored team members and led technical interviews for engineering hires
- Achieved **95% test coverage**; established security-first development culture across engineering team

CTO & Blockchain Lead — Orivium (Part-time)

Jun 2022 – May 2023

- Architected blockchain gaming infrastructure on **Arbitrum**; assembled and mentored technical team; achieved **$350K in NFT sales within first hour** of launch

Co-Founder & CTO — Tok'Art

Oct 2021 – Feb 2022

- Designed and launched ERC-721 NFT marketplace; implemented Layer 2 solutions achieving **400x speed improvement and 50x cost reduction**

Education

EPITECH — Engineering Degree in Information Technology

3W Academy — Bachelor's Degree in Fullstack Web Development