

PUSHKARAN

BLOCKCHAIN ENGINEER • SMART CONTRACT SECURITY & AUDITING • DEFI SPECIALIST

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PROFESSIONAL PROFILE

Core Blockchain Engineer with a focus on **Solidity security auditing** and robust protocol architecture. Proven ability to conduct manual security reviews of production-grade DeFi and governance smart contracts. Expertise in identifying complex attack vectors including reentrancy, access control bypasses, and arithmetic overflows/underflows. Active security researcher in the **CodeHawks** ecosystem, contributing to the safety of decentralized finance through structured audit methodologies and gas-efficient EVM implementations.

SMART CONTRACT AUDIT EXPERIENCE

Security Researcher & Auditor CodeHawks (First Flight)

Present

Security Track Record: Disclosed **1 High + 3 Medium** severity vulnerabilities in production-grade codebases.

- Audited high-stakes protocols including **BriVault**, **Token-Ox**, and **MultiSig Timelock**.
- Applied manual review techniques and automated analysis to secure diverse smart contract logic.
- Authored high-fidelity vulnerability reports encompassing technical impact, PoCs, and actionable remediation.
- Performed threat modeling for complex cross-contract interactions and governance mechanisms.

PROFESSIONAL EXPERIENCE

Blockchain & Crypto Intern FutureInterns

Internship

- Architected and reviewed Solidity smart contracts following strictly enforced security standards.
- Engineered comprehensive unit and invariant test suites using **Foundry** and OpenZeppelin.
- Collaborated with senior engineers on security analysis of Ethereum-based Layer-1 and Layer-2 applications.

KEY PROJECTS

ERC20 Staking Protocol

Open Source / Security-First

- Implemented a secure reward-staking engine with math-precision handling for token accruals.
- Minimized gas costs for core functions and integrated decentralized access control patterns.

TECHNICAL PROFICIENCY

SECURITY & AUDITING

Vulnerability Analysis, Manual Review, Threat Modeling, Gas Optimization

LANGUAGES / EVM

Solidity, Yul (EVM OpCodes), Assembly, JavaScript, Python

DEVELOPMENT STACK

Foundry, Hardhat, Remix, Slither, Aderyn, OpenZeppelin

CERTIFICATIONS

Smart Contract Security & Auditing
Cyfrin Updraft

Web3 Security Professional
Cyfrin Updraft

Solidity Smart Contract Dev
Cyfrin Updraft

Blockchain Fundamentals
Cyfrin Updraft

ACADEMIC HISTORY

B.E. Computer Science
University College of Engineering
Exp. Graduation: 2028