RAMPRASAD — Smart Contract Engineer | Blockchain Security Researcher

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Audit Reports: Smart Contract Audit Reports

SUMMARY

Smart Contract Engineer & Blockchain Security Researcher specialized in Solidity, EVM internals, DeFi architecture, and vulnerability analysis. Experienced in identifying critical flaws in smart contracts, designing secure protocol logic, and optimizing gas costs. Delivered audits, PoCs, refactoring, and end-to-end smart contract systems with professional documentation.

CORE SKILLS

Smart Contract Engineering
Solidity (Expert) · Foundry · Hardhat · EVM Assembly · Proxy/Upgradable Contracts · ERC-20 · ERC-721 · Merkle Airdrops · AA Wallets · Chainlink CCIP · Tokenomics

Security & Auditing
Manual Code Review · Threat Modeling · Invariant & Property Testing · Fuzzing · Static Analysis · Reentrancy · Oracle Manipulation · Access Control · Flash-loan Attacks · Gas Optimization

Tooling
Slither · Echidna · Tenderly · Mythril · Foundry-Forge · Docker · Git · Postman

Programming
Python (Scripting) · Rust (Proficient) · JavaScript · Node.js

EXPERIENCE

Blockchain Engineer — Independent (2024–Present)
- Developed 9+ production-level smart contract systems (DAOs, tokens, AA modules, rebase tokens, airdrops).
- Designed secure token frameworks with modular architecture.
- Implemented Account Abstraction modules with custom validation logic.
- Built and optimized Merkle Airdrops with replay protection and low gas.
- Achieved up to 40% gas savings via deep refactoring and storage optimizations.

Smart Contract Auditor — Independent (2025–Present)
- Performed audits on DeFi protocols focusing on reentrancy, oracle mispricing, repay logic, callback surfaces.
- Delivered structured audit reports with PoCs, exploit reasoning, and remediation steps.
- Used Foundry invariants, fuzzing, differential testing to uncover deeper inconsistencies.

SELECTED PROJECTS

- ERC-20 Token Framework — Modular, secure architecture.
- DAO Framework — Governance, proposals, execution safety checks.
- Merkle Airdrop — Secure proof verification and gas-optimized claims.
- Account Abstraction Modules — Custom validation logic & UserOp handlers.
- CCIP Rebase Token — Multi-chain synchronized supply using Chainlink CCIP.

AUDIT HIGHLIGHTS

- Tswap — Critical reentrancy + oracle desync vulnerability patched.
- ThunderLoan — Flash-loan repay math fix + invariant checks.
- PuppyRaffle — Randomness fix + ~40% gas optimization.

INTERESTS

Security Research · Exploit Reproduction · L2 Design · DeFi Protocols · Classical Music