

HARSH

FOUNDING SMART CONTRACT ENGINEER & SECURITY AUDITOR

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Location: Ahmedabad, India (Remote Available)

EXECUTIVE SUMMARY

- **Founding Protocol Engineering:** Hands-on experience architecting decentralized credit markets, automated yield systems, and non-custodial financial state machines.
- **Security & Invariants:** Protocol security auditor specializing in invariant test formulations, reentrancy defense, and mathematical precision verification.

PROFESSIONAL EXPERIENCE

Founding Smart Contract Engineer & Security Auditor

2026 – PRESENT

ONES (On-Chain Neobank)

Remote

- **P2P Lending Protocol:** Architected decentralized credit markets featuring automated dual price- and time-based liquidation engines.
- **Yield-on-Spend Router:** Engineered automated treasury contracts routing idle balances into DeFi yield pools with instant JIT buffer replenishment on card spend.
- **Gasless User Onboarding:** Integrated smart account abstraction with custom paymaster infrastructure for a seamless 100% gasless transaction experience.
- **Security & Invariants:** Formulated property-based invariant test suites and conducted protocol audits to eliminate reentrancy and protect capital.

Solo Protocol Engineer

2025 – 2026

First Principles Protocol Development

Remote

- **21+ Production Contracts:** Engineered and deployed smart contracts from scratch covering lending protocols, time-locked vaults, auctions, and token standards.
- **Token Vesting Engine:** Implemented multi-beneficiary cliff periods and linear unlock schedules with complete event logging and NatSpec documentation.
- **NFT Dutch Auction:** Built declining-price auction contracts with atomic minting and automatic buyer excess-refund mechanics.
- **Commit-Reveal Lottery:** Implemented a trustless multi-party randomness protocol ensuring verifiable on-chain fairness.

White Hat Bug Hunter & Security Researcher

PRE-2024

Independent Security Research

Remote

- **Vulnerability Hunting:** Audited web application architectures and hunted vulnerabilities across production FinTech platforms, establishing an adversarial zero-trust mindset.
- **Security Analysis:** Identified authentication bypasses, race conditions, and business logic flaws across complex multi-user state machines.

Full-Stack Engineering Intern

JAN 2025 – APR 2025

DIPC Software

On-site / Remote

- **Full-Stack Development:** Engineered web application interfaces with React.js, integrating complex UI states with secure backend architectures.

SKILLS & EXPERTISE

- **Smart Contracts:** Solidity, Protocol Architecture, Lending Markets, Yield Routers, Account Abstraction, Token Systems
- **Security & Auditing:** Smart Contract Auditing, Invariant Testing, Slither Static Analysis, Fuzz Testing, Reentrancy Prevention
- **Tooling & Stack:** Foundry, Hardhat, TypeScript, JavaScript, Python, Git

EDUCATION

- **Bachelor of Engineering in Information Technology** • Gujarat Technological University

2021 – 2025

SAL Engineering and Technical Institute • **CGPA: 8.05 / 10.0**