

YATHARTH SINGH

Smart Contract Developer | Delhi, India

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PROFESSIONAL SUMMARY

Smart Contract Developer with hands-on experience building Ethereum applications across account abstraction, multisignature authorization, signed payment workflows, and token presales. Proficient in Solidity, Foundry, ERC-4337, EIP-712, React, and TypeScript, with a focus on access control, replay protection, testable contract behavior, and complete wallet-to-frontend integration.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

May 2026

*Bachelor of Technology in Computer Science and Engineering – **Percentage: 73%***

India

PROJECTS

Veydrava | [Solidity](#), [Foundry](#), [EIP-712](#), [ERC-1271](#), [Next.js](#), [Viem](#)

[Live](#) | [GitHub](#)

- Built a controlled payment vault with recipient allowlisting, signed payment intents, nonce and deadline checks, per-transaction limits, daily spending limits, and relayer-compatible execution.
- Added ERC-1271 smart-wallet signature support and a responsive dashboard for deposits, rules, scheduled payments, authorization, and payment activity.

NYX Session Key Wallet | [ERC-4337 v0.7](#), [Solidity](#), [Ethers.js](#), [React](#), [TypeScript](#)

[Live](#) | [GitHub](#)

- Developed an ERC-4337 smart account with scoped gaming session keys, token budgets, expiry, revocation, nonce checks, fixed-action authorization, and owner asset recovery.
- Implemented a CREATE2 account factory, bundler-ready UserOperation client, and 17 passing integration tests against the EntryPoint v0.7 execution path.

ERC-4337 Multisig Smart Account | [Solidity](#), [Foundry](#), [ECDSA](#), [OpenZeppelin](#)

[GitHub](#)

- Engineered custom 3-of-5 multisignature validation with unique-owner checks, duplicate-signer rejection, unauthorized-signer rejection, and ERC-20 execution.
- Added a whitelist paymaster for sponsored UserOperations and Foundry tests covering authorization thresholds and invalid signature paths.

TokenLaunchpad | [Solidity](#), [ERC-20](#), [SafeERC20](#), [Ethers.js](#), [Vite](#)

[Live](#) | [GitHub](#)

- Built a factory-driven launchpad for fixed-supply ERC-20 creation and isolated USDC presales with escrowed inventory, immutable sale terms, soft and hard caps, and per-wallet limits.
- Implemented permissionless finalization, buyer claims, contributor refunds, creator withdrawals, SafeERC20 transfers, ReentrancyGuard, and unit, fuzz, and EVM integration tests.

PROFESSIONAL EXPERIENCE

Independent

2024 – Present

Freelance Web3 and Frontend Developer

Delhi, India / Remote

- Designed smart contracts and responsive dApp interfaces from contract architecture through wallet integration and deployment-ready handoff.
- Translated product requirements into permissions, validation rules, failure states, and frontend transaction flows using Solidity, Foundry, React, Next.js, Ethers.js, and Viem.
- Built test suites and demo environments that make complex on-chain behavior easier to validate and present to technical and non-technical stakeholders.

TECHNICAL SKILLS

Blockchain: Solidity, Ethereum, EVM, ERC-20, ERC-721, ERC-4337, EIP-712, ERC-1271, Chainlink

Development: Foundry, Forge, OpenZeppelin, Git

Web3 and Frontend: Ethers.js v6, React, Next.js, TypeScript, JavaScript, Vite, Tailwind CSS

Testing and Security: Unit, fuzz, and integration testing; access control; signature validation; replay and reentrancy protection