

MAYURSINH ZALA

Blockchain Engineer | Smart Contract Developer | Staking & DeFi

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Blockchain engineer with **production smart contract experience** including **staking systems, token mechanisms, and DeFi protocols**. Built and deployed ERC-20 tokens with staking (variable APY), vesting, and multi-phase presale contracts — audited by CertiK. Discovered **critical vulnerabilities** in ThorChain's Rujira protocol (approved by ThorSec team). Experienced with Web3 wallet integrations (MetaMask, WalletConnect, RainbowKit) and backend services using Node.js. Remote-first developer with proven track record working across global distributed teams.

Core Strengths: Staking contracts, ERC-20/721/1155 tokens, DeFi protocols, Web3 wallet integration, Security auditing

Production: CertiK-audited smart contracts | Critical bug bounties approved | 5+ countries remote collaboration

TECHNICAL EXPERTISE

Blockchain & Security: Solidity, Smart Contract Auditing, Staking Mechanisms, Ethereum, Web3.js, Ethers.js, ERC-20/721/1155, DeFi, Foundry, Hardhat, OpenZeppelin, Slither, Mythril

Backend: Node.js, Express.js, Java, Spring Boot, REST APIs, MySQL, PostgreSQL, MongoDB

Frontend & Web3: React.js, TypeScript, JavaScript, MetaMask, WalletConnect, RainbowKit, Tailwind CSS

Tools: Git/GitHub, Postman, VS Code, Linux, CI/CD, Etherscan | **Testing:** Foundry Forge, Fuzz Testing, Code Coverage

PROFESSIONAL EXPERIENCE

Blockchain Security Researcher

Dec 2025 – Present

Independent Security Research | Bug Bounty Programs

- Discovered and reported **critical security vulnerabilities** in ThorChain's Rujira protocol (approved by ThorSec team)
- Identified critical-severity bugs in DeFi smart contracts — details under responsible disclosure
- Developed comprehensive proof-of-concept exploits | Collaborated with security teams on responsible disclosure

Tech: Rust, CosmWasm, Solidity, DeFi Attack Vectors, PoC Development

Smart Contract Developer (Contract)

Oct 2025 – Present

GrowForce FZCO / iEscrow.io | Dubai, UAE (Remote)

- Developed **production-ready smart contracts** for \$ESCROW ecosystem on Ethereum mainnet
- Architected ERC-20 token with **staking (variable APY)**, vesting schedules, and multi-phase presale with dynamic pricing
- Contracts audited by **CertiK** — resolved all security findings from professional audit
- Integrated smart contracts with frontend using **Web3.js and wallet connectors**
- Worked remotely with **international team across 5+ countries** using sync communication (Slack, Discord)

Impact: Contracts prepared for mainnet launch | Zero critical vulnerabilities post-audit | Staking system live

Full-Stack Blockchain Developer

Jan 2025 – Present

Self-Employed / Portfolio Projects

- Built **cross-chain token bridge** with lock-and-mint mechanism, multi-validator consensus, fraud proofs
- Developed **DeFi lending protocol** with supply/borrow mechanics, liquidation protection, dynamic APY
- Created production-grade test suites with 77+ tests | Deployed to Sepolia, Holesky with comprehensive docs

Tech: Solidity, Foundry, React.js, TypeScript, RainbowKit, WalletConnect, Node.js

Backend Developer Intern

Jan 2025 – Apr 2025

Zidio Development | Remote

- Built **scalable REST APIs** using Java, Spring Boot, MySQL | Developed React.js frontend
- Integrated **Cashfree payment gateway** with webhook processing | JWT auth with role-based access

FEATURED PROJECTS

ChainBridge — Cross-Chain Token Bridge

[GitHub] [Demo]

- Built: Secure cross-chain ERC-20 transfers with lock-and-mint, multi-validator consensus, emergency controls
• 77 tests with Foundry (92% coverage) | Next.js + RainbowKit frontend | Node.js relayer | Deployed Sepolia & Holesky

NexusLend — DeFi Lending Protocol

[GitHub] [Demo]

- Built: Aave-inspired lending with supply/borrow, health factor monitoring, liquidation protection, receipt tokens
• Dynamic APY, price oracle integration | React.js frontend with real-time position monitoring

PUBLICATIONS & SECURITY RESEARCH

- **Critical ThorChain Vulnerability** — Approved by ThorSec
- "Complete 2025 Crypto Hacks & Exploits"

- "AI Smart Contract Audit Checklist 2025"
- "Cheat Sheet for Quick Find Scams in Web3"

EDUCATION

B.E. Computer Engineering — Ahmedabad Institute of Technology, Gujarat

CGPA: 7.5/10 | Aug 2021 – Apr 2025

Relevant: Data Structures & Algorithms, Database Management, Web Technologies, Software Engineering

CERTIFICATIONS & ACHIEVEMENTS

- **Bug Bounty Researcher** — Critical vulnerability findings approved by ThorSec (ThorChain security team)
- HackerRank Java Certification | Deloitte Technology Job Simulation | 63 LeetCode Problems Solved | 12+ GitHub Repos

ADDITIONAL INFORMATION

Availability: Immediate joining | Flexible with global time zones | 40+ hrs/week

Languages: English (Professional), Hindi (Native), Gujarati (Native)

Work Style: Remote-first, self-motivated, independent worker

Interests: Blockchain security, DeFi protocols, Smart contract optimization