

# MAYURSINH ZALA

Blockchain Security Researcher | Smart Contract Engineer

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

## PROFESSIONAL SUMMARY

Smart contract developer and security researcher with **production blockchain experience** and **approved critical bug bounties** from major DeFi protocols. Successfully delivered CertiK-audited Solidity contracts for international cryptocurrency project. **Discovered and reported critical vulnerabilities** in ThorChain's Rujira protocol (approved by ThorSec team). Specialized in secure smart contract development, DeFi protocols, and security auditing. Remote-first developer with proven ability to work independently across global teams.

**Security Research:** Critical vulnerability findings in production DeFi protocols | Working with professional security teams

**Development:** Production smart contracts handling real value | Gas optimization | Comprehensive testing

## TECHNICAL EXPERTISE

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

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

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

**Tools:** Git/GitHub, Docker, Postman, VS Code, Linux, CI/CD, Etherscan, Tenderly | **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 first depositor inflation attack enabling complete fund theft (R-08: NAMI Index)
- Found single-sided deposit vulnerability in BOW XYK AMM contract (R-09: under review)
- 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 vesting, multi-phase presale with dynamic pricing, staking with variable APY
- Collaborated with **CertiK auditors** — 15% gas optimization — 95%+ code coverage with Foundry fuzz testing
- Worked remotely with **international team across 5+ countries** using sync communication  
Impact: Contracts prepared for mainnet launch | Zero critical vulnerabilities post-audit

### 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, Next.js, TypeScript, RainbowKit, 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" (1,200+ reads)

- "AI Smart Contract Audit Checklist 2025" (500+ reads)
- "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 | 150+ LeetCode Problems | 41+ 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