

MUHAMMAD RAYAN

BLOCKCHAIN DEVELOPER

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🐙 **Github** : <https://github.com/Rayannnzn>

SUMMARY

Blockchain Developer with hands-on experience in designing and deploying smart contracts across DeFi, NFT and cross-chain ecosystems. Skilled in Solidity, Hardhat, Foundry, and Next.js with a strong understanding of Ethereum, Chainlink, and LayerZero protocols. Developed and audited projects including NFT marketplaces, stablecoin systems, dynamic NFTs, and on-chain raffles. Passionate about building secure, scalable, and gas-efficient Web3 solutions aligned with decentralized principles.

PROJECTS

NFT Marketplace

Developed a full-stack NFT marketplace enabling minting, listing, and trading of ERC-721 tokens. Integrated on-chain royalty payments, real-time price updates, and IPFS metadata storage using Solidity, Hardhat, and Next.js. Implemented React hooks with Web3.js for wallet connectivity.

DeFi Stablecoin Protocol

Designed and implemented a decentralized USD-pegged stablecoin using collateralized smart contracts. Developed mint and burn logic, collateral ratio checks, and liquidation mechanisms. Integrated Chainlink Oracles and focused on security and gas optimization. Designed and implemented collateralized Protocol

Cross-Chain Rebase Token

Engineered an elastic supply token capable of cross-chain balance synchronization. Implemented automated rebase logic and bridge functionality using LayerZero/Wormhole protocols. Emphasized efficient state updates, event handling, and smart contract performance optimization.

Merkle Airdrop Distribution

Implemented an efficient and secure token airdrop system leveraging Merkle proofs for claim verification. Developed scripts for proof generation and deployed contracts via Foundry. Achieved large-scaled trustless distribution with minimal gas costs.

On-Chain Raffle System

Developed a decentralized raffle platform using Chainlink VRF for provably fair randomness. Designed secure entry validation, automated winner selection, and transparent reward distribution. Optimized gas usage and ensured full on-chain verifiability.

TECHNICAL SKILLS

Blockchain Skills : Solidity, Foundry, Hardhat

Web Technologies : HTML, CSS, React.js, Next.js, Node.js

Blockchain Skills : Smart Contracts (Solidity), Foundry Framework, Hardhat & EVM Based Chains

Database And API : MySQL, JSON APIs, RESTful Architecture

Tools & Version Control: Git, GitHub, VS Code, Metamask, Anvil, Alchemy, Ethers.js, Wagmi

EDUCATION

Bachelor of Science in Software Engineering

From University of Management and Technology, Lahore

Certified Web3 Developer (Cyfrin Updraft) — Smart Contracts, Foundry, DeFi & Security

PROFESSIONAL EXPERIENCE

Independent Web3 Developer (Self-Taught / Projects)

Built and deployed multiple smart contract projects using Solidity and Foundry, including ERC20 tokens, NFTs, stablecoins, and rebase tokens.