

Muhammad Zain Khan

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[Blockchain Engineer]

Smart Contract Engineer | Solidity | DeFi & Web3 Security | Rust

Experienced blockchain engineer with expertise in DeFi, NFT marketplaces, and smart contract security. Developed 21+ NFT collections, optimized crypto exchange APIs for 20% faster response times, and contributed to Web3 gaming infrastructure. Proficient in Solidity, Hardhat, Foundry, and multi-chain EVM integrations. Passionate about auditing smart contracts, eliminating vulnerabilities, and reducing gas fees. Currently exploring Rust for next-gen blockchain security. Seeking remote opportunities in Web3 security, DeFi, or smart contract engineering.

WORK EXPERIENCE

TEKHQS

Hybrid

Blockchain Engineer

FEB 2025 - Present

- Led seamless coordination between mobile, frontend, and backend teams to integrate blockchain features into the Komiti app, ensuring robust end-to-end functionality across platforms.
- Designed and implemented smart contracts for multi-signature wallets, along with backend APIs and complete frontend integration, enabling secure and flexible on-chain user authentication flows.
- Developed a full-stack domain fractionalization platform, including smart contracts for NFT minting, ERC20-based swaps, and leasing proposals; delivered end-to-end under tight deadlines.
- Acted as the go-to blockchain resource across departments, filling knowledge gaps, accelerating testing, and supporting critical delivery phases for production-grade dApps.

THE GAME COMPANY

Remote

Blockchain Developer

AUG 2023 - JAN 2025

- Designed & deployed 4+ secure smart contracts for Web3 gaming, including staking, vesting, tournament management, and token issuance.
- Built a multi-chain payment system, enabling 500+ simultaneous transactions and reducing deposit failures by 30%.
- Implemented a gas-optimized queuing mechanism, cutting smart contract execution costs by 15%.
- Reviewed & debugged 50+ Solidity smart contracts, ensuring zero critical vulnerabilities in audits.
- Led a team of 5 junior developers, providing mentorship & best practices in Solidity security & Web3 development.

EKKEL AI

Hybrid

Blockchain Developer

JUL 2022 - AUG 2023

- Deployed & managed 21+ NFT smart contracts (ERC721 & ERC1155) on Ethereum & Polygon using Factory Pattern for scalability.
- Optimized API response times by 20%, improving cryptocurrency exchange rate fetching for 150+ trading pairs.
- Developed automated NFT minting & metadata handling pipelines, reducing contract deployment costs by 25%.
- Integrated off-chain oracles to sync real-time price data across DeFi applications.

EDUCATION

[University of Engineering And Technology, Lahore] - [Lahore], [Punjab]

Mechatronics & Control Engineering (Bachelors)

PROJECTS

Web3 Gaming & NFT Platforms

- [Treasure Hunt \(Aptos\)](#) - Designed an **on-chain play-to-earn game**, implementing **NFT-based power-ups & rewards**.
- [Roarlinko \(Ethereum/Aptos\)](#) - Developed a **Play-to-Earn Metaverse**, driving **\$40K+ in NFT sales** with on-chain asset verification.
- [Jungle CosmosToss \(APTOS\)](#) - Engaging Coin Flip play-to-win game.
- [Game Boss \(TON Blockchain\)](#) - Engineered **Web3 gameplay mechanics**, similar to Hamster Kombat, introducing team & player battles.

DeFi & Smart Contracts

- [GMRT Launch Pad \(Ethereum\)](#) - Built a **staking & token distribution** contract, enabling users to stake tokens and earn GMRT rewards based on time & amount.
- [FuzionX \(Ethereum/Polygon\)](#) - Developed a **DEX & NFT marketplace**, integrating **real-time asset pricing APIs** for 150+ trading pairs.
- [Jungle Run \(Ethereum/Aptos\)](#) - Created an **NFT verification dApp**, allowing users to **mint new NFTs based on holdings** across Ethereum & Aptos.

Cross-Chain & Security Solutions

- [NFT Migration dApps \(Ethereum → Aptos\)](#) - Designed a **secure migration dApp**, facilitating the transfer of **2,700+ NFTs** through signature verification.
- [ImmutableType \(Ethereum\)](#) - Built a **decentralized news storage solution**, ensuring censorship-resistant content publishing.

PROFESSIONAL SKILLS

Solidity (ERC20, ERC721, ERC1155, Staking, Vesting, DeFi), Hardhat, Foundry, Truffle, Remix, Smart Contract Security, (Slither, MythX, Fuzz Testing), Gas Optimization, MEV Strategies, Flash Loans, Ethereum, Polygon, Avax, Arbitrum, Aptos, Ethers.js, NestJS, Node.js, Wagmi, web3Modal, re-own, Web3.js, Smart Contract API Integration, Event Listeners, IPFS, Pinata, Oracles, DeFi Protocols, Staking, Lending, Yield Farming, NFT Marketplaces & Cross-Chain Solutions, TypeScript, JavaScript, Rust, and Golang (Intermediate), Git, Linux, MongoDB, ExpressJS, CI/CD for Blockchain Deployments, Debugging, Smart Contract Audits & Best Practices