



# Muhammad Mohsin Saleem

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## ABOUT ME

Passionate **Blockchain Developer** with **1+ year of experience** in **Ethereum & Binance Smart Chain (EVM-based chains)** and **6+ months in Algorand**. Proficient in **smart contract development, DApps, and blockchain architecture**, leveraging technologies like **Algorand SDK, AlgoPy, and ARC4** to build secure and scalable solutions. Adept at optimizing blockchain systems with a strong focus on **performance, scalability, and security**. Experienced in collaborating with cross-functional teams to develop **innovative blockchain solutions** that align with technical and business objectives.

## WORK EXPERIENCE

03/12/2024 – CURRENT ISLAMABAD, Pakistan

### BLOCKCHAIN ENGINEER OCTALOOPT TECHNOLOGIES

#### Responsibilities:

- Developed and deployed **staking and farming smart contracts** on Algorand, ensuring optimized yield distribution and security.
- Designed and implemented a **decentralized NFT marketplace**, enabling seamless NFT trading with smart contract-based escrow.
- Integrated **ARC4 standards** for NFT auctions, improving transparency and security in bidding mechanisms.
- Optimized **Algorand smart contracts** for gas efficiency and reduced transaction costs.
- Ensured **secure fund management** through atomic transactions and on-chain verification.

#### Key Projects:

- **Algorand Staking & Farming System** – Designed a staking contract allowing users to lock assets and earn rewards based on farming algorithms.
- **NFT Marketplace on Algorand** – Built a decentralized NFT marketplace supporting auction-based listings, bid tracking, and automated settlement.

#### Tech Stack:

- **Blockchain:** Algorand, PyTeal, Algopy
- **Smart Contracts:** ARC4, TEAL
- **Backend:** Node.js, Express.js
- **Frontend:** React.js, Next.js
- **Database:** MongoDB
- **Wallet Integration:** Algorand Wallet, MyAlgo

05/08/2023 – 10/11/2024 Lahore, Pakistan

### BLOCKCHAIN ENGINEER TELGATES INC.

#### Responsibilities:

- Developed **EVM-based smart contracts** for **DeFi, staking, vesting, and token swaps** using Solidity.
- Built **NFT marketplaces** with **on-chain royalties, escrow, and multi-currency payments**.
- Conducted **smart contract security audits** and implemented best practices.
- Developed **Algorand smart contracts** using **Algopy/PyTeal**.
- Utilized **Hardhat, and Truffle** for **testing, debugging, and deployment**.
- Deployed smart contracts on **Ethereum, Algorand, BSC, Polygon, and Arbitrum**.
- Implemented **cross-chain bridges and token transfers** for interoperability.

#### Key Projects:

- **ImpactoMoney Charity (Ethereum)** – **Stablecoin-wrapped NFT voucher system** for transparent donations & fund traceability.
- **NFT Marketplace (Ethereum)** – Built a **decentralized NFT marketplace** with **minting, bidding, and multi-chain support**.
- **Token Vesting (Ethereum & Algorand)** – Developed **vesting contracts** for structured **token unlocks & beneficiary claims**.

- **Staking & Reward Contracts (EVM & Algorand)** – Designed **secure staking mechanisms** with **auto-compounding & penalty-based withdrawals**.
- **Token ICO & Launchpad (Ethereum)** – Built a **secure token sale contract** with **whitelist access & vesting schedules**.
- **Swapping & Exchange (Ethereum)** – Integrated **DEX liquidity pools** for **efficient on-chain token swaps**.

#### Tech Stack:

- **Languages:** Solidity, Python (Algopy/PyTeal)
- **Blockchain Platforms:** Ethereum, Algorand, BSC, Polygon, Arbitrum
- **Development Tools:** Hardhat, Truffle
- **Features:** Staking, Vesting, NFT Marketplaces, Auctions, Token Swaps, DAOs
- **Security & Auditing:** OpenZeppelin,
- **Interoperability:** Cross-chain bridges, Multi-token payments
- **Oracles & Infrastructure:** Chainlink, IPFS

Department Blockchain Engineering | **website:** <https://telgates.net>

## ● EDUCATION AND TRAINING

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01/09/2020 – 04/09/2024 Vehari, Pakistan

**BACHELORS IN SOFTWARE ENGINEERING** COMSATS University Islamabad Vehari Campus., 61100 Vehari (Pakistan)

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01/07/2018 – 22/09/2020 Vehari, Pakistan

**FSC (PRE-ENGINEERING)** Govt. Post Graduate College Vehari., 61100 Vehari (Pakistan)

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01/03/2016 – 21/07/2018 Vehari, Pakistan

**MATRICULATION(SCIENCE)** Govt. Model Higher Secondary School Vehari., 61100 Vehari (Pakistan)

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05/2024 – 06/2024

**BECOME A SOFTWARE TESTER** Udemy

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08/2023 – 11/2023

**BLOCKCHAIN SPECIALIZATION** coursera

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## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Soft Skills

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- Multitasking
- Problem-Solving
- Teamwork
- Attention to Detail
- Time Management
- Adaptability