# Mohtashim Nawaz

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Enthusiastic and detail-oriented BTech/BCA student with a strong foundation in computer science and a keen interest in blockchain technology. Eager to gain real-world experience in **smart contract development**, **decentralized applications (dApps)**, and modern blockchain protocols. Passionate about building decentralized solutions that solve real problems and transform industries. Adept at quickly learning new technologies, collaborating in remote environments, and applying theoretical knowledge to practical use cases. Seeking to contribute meaningfully to the team while expanding my skills in the dynamic world of Web3 and blockchain development.

## Education

Bachelor of Engineering in **Computer Science and Engineering(Specialization in Blockchain Technology).**

**Chandigarh University, Punjab.**

## Skills

**Rust** | **JavaScript** | **Typescript** | C/C++ | **Solana** | **ICP** | GitHub | Express.js | Blockchain | Web3 | React | Linux

## Projects

1) **Solana Gas Fee Prediction |** [GitHub Repo: - Click Here] - Developed a decentralized application (dApp) on the Solana blockchain to estimate transaction fees based on parameters like operation complexity, additional accounts, and data size. Implemented the smart contract using Rust and the Anchor framework, ensuring efficient and secure on-chain computations. Designed and built a responsive frontend with React and Tailwind CSS v4, leveraging its CSS-first configuration for streamlined styling. Integrated Solana wallet adapters to facilitate seamless user interactions with the blockchain.

2) **DeFi Options Vaults |** [GitHub Repo: - Click Here] - Built a fully on-chain DeFi Options Vault (DOV) on Solana using Rust and Anchor to automate covered call and put selling strategies. Designed smart contracts to handle user deposits, option auctions, and yield settlement. Integrated SPL tokens, oracles, and Solana clock for time-based vault cycles. Optimized for low compute and high throughput on Solana's parallel runtime.

3) **ICP Dead Man Switch|** [GitHub Repo :- Click Here] - Built a Dead Man's Switch on the Internet Computer Protocol (ICP)using Rust—a smart contract that triggers an automated action if the user becomes inactive (e.g., fails to check in periodically). Think of it as a blockchain-powered failsafe for critical data or transactions. This project explored ICP's decentralized capabilities, Rust's efficiency in smart contracts, and real-world use cases for accountability systems.

4) **Solana Identity Verification System|** [GitHub Repo: - Click Here] - Developed a full-stack decentralized identity verification system using Solana smart contracts for on-chain storage of identity hashes, integrated Zero-Knowledge Proofs for privacy-preserving validation, and implemented JWT-based authentication for secure access control. The frontend was built with Next.js and TypeScript, enabling seamless user interaction for identity registration and verification, while the backend (Node.js + Express + MongoDB) handled user data and blockchain communication.

5) **Decentralized P2P Exchange |** [GitHub Link: - Click Here] - Built a decentralized peer-to-peer (P2P) exchange on Solana using the Anchor framework, enabling trustless asset trades between users via smart contracts with dispute resolution support. Developed a full-stack dApp with a Solana program handling trade lifecycle (initialize, accept, complete), and a responsive Next.js frontend integrated with Solana wallets for real-time trading interactions. Implemented escrow logic, user wallet connectivity, and dynamic trade management UI with TypeScript, Tailwind CSS, and solana/web3.js

## Achievements

**Secured Third Place in HacktheBlock Hackathon** (Mar 2025)

- Secured Third Place in Hackathon Organized by BlockseBlock.

**Academic Achiever's Award** (April 2025)

- Received Academic Achiever's Award for my Academics.