

HAMMAD KHAN

Blockchain Developer

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SUMMARY

Software Engineering graduate from Islamia College University with focused expertise in blockchain development. Skilled in writing secure and efficient smart contracts using Solidity on the Ethereum blockchain, alongside building scalable backend APIs with Node.js and Express.js. Committed to clean, maintainable code and a solid understanding of decentralized systems, I am passionate about contributing to innovative blockchain projects and eager to grow my skills in a dynamic tech environment.

EXPERIENCE

Backend Developer

SAT Software House

November 2025 - Present

- Developed robust backend services using **Node.js** and **Express.js**.
- **Current Project: HIRE Expert**
- Handling the complete backend architecture and implementation.
- Managing distinct modules for **Customer**, **Seller**, and **Admin** panels.
- Ensuring seamless data flow and security across all user roles.

Blockchain Developer Intern

OCTALOOP TECHNOLOGIES, Lahore, Pakistan

Duration: 3 Months

- Octaloop Technologies specializes in cutting-edge Blockchain and AI solutions.
- Focused on Blockchain development and Node Development

PROJECTS

Qryptum Blockchain (Proof of Data)

- Next-generation blockchain utilizing Proof of Data (PoD) consensus.
- Incorporates quantum-resistant security through lattice-based cryptography.
- Introduced Data Contracts (DRC-20) for secure automated data transactions.
- Leveraged AI-driven validation for data integrity.

NFT Marketplace

- Developed an NFT marketplace with auction and direct sales functionalities.

- Ensured secure transactions through blockchain integration with low fees.
- Automated processes using smart contracts with a user-friendly interface.

Blockchain & API Integration

- Developed a custom API to fetch and display smart contract deployment data on BSC.
- Utilized ethers.js for blockchain interaction and BscScan API.
- Built with Node.js and Express.js, ensuring robust error handling.

ERC-20 Token Contract (Dogecoin Clone)

- Custom ERC-20 token with minting, burning, and pausable features.
- Extended OpenZeppelin libraries for secure management.

ESCROW-MARKETPLACE

- Project title: Escrow Marketplace — Decentralized Escrow Smart Contracts
- Short description: Implemented a decentralized escrow marketplace using Solidity smart contracts to enable secure peer-to-peer transactions with on-chain escrow and dispute-safe flows. Project includes Hardhat-based development, scripts and test scaffolding for deployment and local testing.
- Tools / technologies: Solidity, Hardhat, JavaScript (tests & scripts), Node.js / npm, Git / GitHub, Hardhat scripts

CrowdfundingFactory-debugging-using-Hardhat

- Project title: Crowdfunding Factory — Hardhat Debugging & Test Setup
- Short description: Developed and debugged a Crowdfunding Factory pattern (factory that spawns campaign contracts) with emphasis on Hardhat-based debugging and automated tests. Focused on contract lifecycle, contribution logic and owner/beneficiary flows.
- Tools / technologies: Solidity, Hardhat (local dev & debugging), JavaScript (tests), Node.js / npm, Mocha/Chai-style testing approach, Git / GitHub

CrowdfundingFactory

- Project title: Crowdfunding Factory — Campaign Factory Smart Contracts
- Short description: Core Crowdfunding Factory implementation enabling creation of multiple crowdfunding campaign contracts, with contribution, withdrawal and campaign state management. Includes scripts for deployment and local testing.
- Tools / technologies: Solidity, JavaScript, Hardhat (or equivalent local dev tooling), Node.js / npm, Git / GitHub

Deposit-and-Withdrawal-simple-project

- Project title: Deposit & Withdrawal DApp — Simple Wallet Interaction Demo
- Short description: Simple deposit-and-withdrawal smart contract paired with a minimal front-end (HTML/CSS/JavaScript) to demonstrate wallet interactions and basic account balance flows. Good demo project for on-chain transaction flows and UI integration.
- Tools / technologies: Solidity, HTML / CSS / JavaScript (front-end), Node.js / npm, local dev tooling (Hardhat / Truffle-style), Git / GitHub, browser wallet (MetaMask) integration

Decentralized voting system using ETH Blockchain(Final year project)

Designed a secure, transparent, and tamper-proof voting system.

- Leveraged smart contracts for registration, voting, and result calculation.
- Tech Stack: Solidity, Web3.js, React, Ganache, Truffle, Node.js, Express.js.

PROJECTS

- **Book Store Application:** MERN stack application for managing books.
- **Local Blockchain Platform:** Built using JavaScript libraries (Publisher, Request, CryptoHash).
- **Land Registry Management:** Smart contract for property ownership and transfers.
- **Election Smart Contract:** Decentralized system for candidate registration and voting.
- **ATM Smart Contract:** Ethereum-based contract for deposits and withdrawals.

SKILLS

- **Blockchain:** Smart Contracts, Ethereum, Solidity, OpenZeppelin (ERC-20, ERC-721), Hardhat, Truffle, Ganache, Web3.js, ethers.js, MetaMask.
- **Backend:** Node.js, Express.js, REST API, MongoDB.
- **Tools:** Postman, GitHub, Microsoft Office.

EDUCATION

BS Software Engineering

Islamia College University, Peshawar, Pakistan

09/2020 - 08/2024