Hammad Khan

Software Engineer

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Education

Islamia College University, Peshawar — Peshawar Pakistan

BS. Software Engineering — Aug. 2020- June 2024

Skills

Core Programming	Solidity, JavaScript, C#
Web Development	HTML5, CSS3, Bootstrap, tailwind, MongoDB, PHP, Asp.netcore, web3.js ether.js, Nodes.js, Express.js
Graphics & Visualization	Computer Graphics
Databases	SQL Server, MongoDB
Database Management	MySQL, NoSQL
System Administration	CI/CD
Version Controls	Git:: CLI : GitHub

Personal Skill Experience

- Self-Starter
- Flexible& Adaptable
- Leadership
- Communication

Volunteer Work Experience

Community Service Society — Islamia College University

General Secretary — Dec. 2022 - Dec. 2023

- Implemented community outreach programs and initiatives, expanding societies' impact and reach within community.

Certifications

- **MS Office** — April 2018, Star institute
- **CIT(Web development)** — Aug 2022, UET Peshawar
- **Blockchain Course** — Mar 2024, You Tube
- **Web3.js Course** — April 2024, YouTube
- **Backend Web Development with Node.js and Express.js** — Jan 2024, Udemy
- **C# full Course** — Nov 2024, Microsoft

Projects

Decentralized Voting System using Blockchain for TSA

Final Year Project

- Designed and implemented a blockchain-powered voting system to enable secure, transparent, and tamper-proof elections.
- Leveraged **smart contracts** for voter registration, secure vote casting, and automated result calculation, ensuring immutability and trustworthiness.
- Utilized **cryptographic algorithms** to maintain voter privacy and enforce a "one voter, one vote" policy.
- Developed a responsive frontend using **Web3.js** and **React**, providing features to view candidates, cast votes, and track results in real time.
- Employed **Ganache** for local blockchain simulation and testing, and **Truffle** for contract development, migration, and testing.
- Ensured transparency by making results publicly accessible immediately upon voting completion.
- **Tools Used: Solidity, Web3.js, React, Ganache, Truffle.**

BBC App Clone

- Designed and developed a replica of the BBC application using **HTML** and **CSS**, achieving an accurate recreation of its design and layout.
- **Tools Used**: HTML, CSS

Book Store Application

- Created a digital bookstore application where users can easily store, search, and manage books.
- Integrated into **MongoDB** for seamless book storage and retrieval functionality.
- **Tools Used**: React, Node.js

Locally Blockchain Platform

- Built a local blockchain platform utilizing JavaScript libraries such as **Publisher**, **Request**, and **CryptoHash**.
- Integrated with a **Redis server** to ensure secure and efficient real-time data processing.
- Ideal for decentralized applications and secure transactions.
- **Tools Used**: JavaScript, Node.js, Express.js

Land Registry Management Smart Contract

- Developed a blockchain-based smart contract for managing property ownership records and transactions.
- Ensured a transparent, immutable, and fraud-resistant system for land title registration and property transfer, eliminating intermediaries.
- **Tools Used**: Solidity

Election Smart Contract

- Implemented a smart contract for conducting elections where an admin can add candidates, and users can register and cast votes seamlessly.
- Simplified the voting process with a decentralized and transparent approach.
- **Tools Used**: Solidity

ATM Smart Contract

- Designed an Ethereum-based ATM smart contract to demonstrate basic deposit, withdrawal, and balance-checking functionalities.
- Ensured secure transactions on the blockchain.
- **Tools Used**: Solidity