Muhammad Ahmed

Blockchain and Web3 Developer

A Computer Science student with love for computer technologies since childhood. I see myself devoted to Web3 Development and Blockchain technologies such as Ethereum, Zero-knowledge Proofs and De-centralized finance, which are the future of internet and currently a disruptive stack. I build decentralized applications and I am keen to learn as much as I can whether it is through team work or an individual project.

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EDUCATION

B.Sc Computer Science
National University of Computer and Emerging Sciences - FAST NUCES

09/2021 - Present   *Karachi, Pakistan*

PROJECTS

Decentralized Finance Staking DApplication
- Users can login to this site using their Web3 wallets such as MetaMask. They can hold their crypto coins or they can exchange it for tokens or USDT.

Smart Attendance System
- IoT-based system which can be deployed in workplaces such as offices, restaurants, wherever there is employee-manager system involved. System can track attendance, hold records such as all personal information, RFID based card scanning system, as well as generate the employee salary month-wise or week-wise.

Blockchain in JavaScript
- A console based blockchain which covers almost every fundamental concept of blockchain including data hashing and de-centralization. The blockchain will communicate to other nodes using publish subscribe model and Redis server. Each node has its own port and data is replicated for each node running concurrently.

Codetribute
- Built a web application for developers to share the code they are finding difficult to debug and other members may help. The code publishers offer rewards to fix the problem and the contributors will be rewarded in regard. The transactions are handled using Web3js library and MetaMask. This site also includes custom ERC20 token known as CodetibuteToken as token of currency.

Cross-exchange Crypto dApp
- This app is inspired from Uniswap decentralized exchange and played huge role in my career for acquiring critical knowledge regarding cryptocurrencies, as well as, decentralized finance as a disruptive technology. It uses Polygon zkEVM as L2 blockchain, to handle the authenticity of users and their requests.

AuctionIT!
- This app by name is understood to be an auctioning app. This app lets user to login using a Web3 wallet and list items they want to auction, may be an NFT, a real-life item or even a token. It is powered by React/Vite, MongoDB, and Ethereum blockchain as L1 architecture.

SKILLS

[Blockchain Stack] Core Blockchain development, Ethereum Virtual Machine, Rust, Hardhat, Solidity, Polygon zero-Knowledge SNARKS, EtherJS

[Web Stack] MongoDB, Neo4j, MySQL, ReactJS, ExpressJS, NodeJS, HTML5, CSS3, TailwindCSS, React Components

[Others] C/C++, Java, Python

[Mobile] Firebase, Flutter, React Native

Content Writing, Networking and Debugging

ACHIEVEMENTS

2023 Developers Day Hackathon
Secured Top 10 position in Hackathon held at FAST-NUCES Karachi Campus

2022 The Literary Club Society Event
Reached semi-finals of multi-event based competition which included mystery solving, time-based challenges and IQ quiz

ROLES

Head of Blockchain Competition (10/2023 - Present)
Leading a team of talented individuals to organize competitions of a flagship event, PROCOM 2024, to be held at FAST NUCES Karachi during 2024 Spring Semester. Designing a Blockchain CTF and speed programming based on Solidity Smart Contracts.

Event Administration Co-ordinator (10/2022 - 01/2023)
Lead members of Event Administration as Sportics Society Co-ordinator to organize different events related to sports

INTERESTS

Football/Soccer   ESports   Travelling