

Usama Rashid Butt

Email: usamarashid.work@gmail.com

Mobile: +92-312-5802759

Github: UsamaRashid

EDUCATION

- FAST - NUCES** Islamabad, Pakistan
Bachelor of Science - Computer Science Aug 2018 - Jul 2022
Courses: OOP, Data Structures, Operating Systems, Databases, Design and Analysis of Algorithms, Artificial Intelligence & Machine Learning, NLP, Software Design and Analysis, Software Project Management, Cloud Computing, Blockchain and cryptocurrency

SKILLS SUMMARY

- Languages:** Solidity, Python, C/C++, JavaScript, GO/Golang, Rust
- Blockchain:** Ethereum, DeFi, Smart Contracts, Solidity, Web3Js, EthersJs, Infura, Moralis, Wagmi, Hyperledger
- EIPs:** ERC20, ERC721, ERC721A, ERC1155, ERC2981, ERC4907, ERC712, EIP137
- Protocols:** Uniswap, ZeroX, 1inch, Opensea Seaport
- Backend:** NodeJS (JS/ TS), Flask, FastAPI, MySQL, SQL, PostgreSQL, MongoDB
- Frontend:** ReactJS, NextJS, Redux
- Frameworks:** Openzeppelin, Hardhat, Truffle, Flask, NodeJS, Ganache
- Soft Skills:** Problem Solving, Decision Making, Leadership and Team Management

EXPERIENCE

- DevsInc** Hybrid
Software Engineer - Blockchain (Full-time) July 2023 - Present
 - Carbify Smart Contracts:** Developed, Tested and Audited smart contracts for all Carbify modules including NFTrees, Staking, ACO2 Pools & On-Chain Certificates, Taxing Token
- Associate Software Engineer - Blockchain (Full-time)* July 2022 - July 2023
 - Carbify Architecture:** Architected Carbify smart contracts eco-system
 - Programmer Punks:** Developed different variants of ERC721 including Soul Bound, Mutating, Staking, Royalty, Gift, Reward Splitting, Lazy Mint, Delayed Revealing, Airdrop, On-Chain NFT Creation, Smart NFTs, Factory Contracts

PROJECTS

- Carbify - A Blockchain-Based Gamified Project (Blockchain):** It aims to raise awareness among people on carbon emission and a way for people and companies to reduce their carbon footprint using aCO2 tokens. It uses blockchain technology to keep track of CO2 generated by the real plants planted on Amazon rainforest by Carbify team.
- Programmer Punks - An Open-Source Library (Blockchain):** Community driven platform that provides Web3/NFT/Metaverse open-source solutions & tutorials for the dev community
- Custom Blockchain - Golang-Based Blockchain Implementation (Blockchain):** This project involved customizing the blockchain architecture to meet specific requirements and understanding of blockchain concepts. It encompassed the design and implementation of crucial components like data structures, and transaction management.
- Frozen Product Verification System (Blockchain):** An automated blockchain-based product verification web app that serves to verify credibility and quality of products. It is deployed on Ethereum network.
- Blockchain-Based File Sharing System (Blockchain, IPFS):** A web-based peer-to-peer file sharing platform powered by blockchain using IPFS. This is the most secure approach for a decentralized file sharing system.
- MIMICBOT - Final Year Project (NLP, Data Science, Deep Learning):** Implementation of Google's Paper titled Transfer Learning From Speaker Verification to Multispeaker Text-To-Speech Synthesis. It is A real-time multi-speaker voice cloning text-to-speech app for Urdu language that allows users to clone any voice with reference speech of 5-10 secs.
- Exams Schedule Generator (Artificial Intelligence):** AI based program to generate clash free timetable with few other parameters on large dataset. It was solved by implementing the Genetic Algorithm
- Password Cracker (OpenMp, Mp):** A c program to brute force a password intelligently with efficient task distribution and load balancing on a cluster of machines
- Dinosaur T-Rex Game (Assembly):** a Dinosaur Game, also known as Dino Runner, which is an in-built browser game in the Google Chrome web browser but it was built-in assembly language.

HONORS AND AWARDS

- Employee of the Quarter at Devsinc - Mar, 2023