

Compared to the compa

Education

bachelor's degree Blockchain labratory of Movahedian professor International University of Imam Reza 2019-09 – Present

Work Experience

EXMadule

2022-10 – 2023-01 Mashhad, Iran

Novin Exchange

- NFT Marketplace (with ERC721 standard)
- NFT Marketplace (with ERC1155 standard)
- Storing Users Account on BlockChain

Project

NFT Marketplace

nttps://github.com/aliapg2019/nft-market

- The smart contracts of this project are written in Solidity and were tested and deployed using the Hardhat framework on the Ganache test network.
- Next.js framework has been used for implementing the frontend.
- This project includes the ability to mint assets such as photos and GIFs as NFTs, which users can create.
- The creator of an NFT can receive a percentage of the secondary sales as royalties from the buyer.
- Users can list and sell their own NFTs in the market and also purchase NFTs from other users.

Triangular Arbitrage

- This project is created using JavaScript and utilizes the ethers.js library to interact with decentralized exchange smart contracts. It also employs Infura to establish a node provider and contract signer.
- This project finds triangular arbitrage opportunities in decentralized exchanges and calculates profit percentages.
- Specifically implemented for Uniswap V3 exchange, it identifies triangular arbitrage positions.
- Liquidity pools of the exchange are collected using GraphQL and the Uniswap V3 API.
- Challenges include high gas fees for swapping on the Ethereum mainnet and handling pools without liquidity or expired pools.

Flash Loans/Flash Swap

- Flash Loans are uncollateralized loans given to blockchain developers in DeFi without requiring collateral or upfront fees.
- These loans can be obtained programmatically from decentralized exchanges or protocols like Aave using smart contracts.
- Flash Loans enable various strategies such as triangular arbitrage, yield farming, and sandwich swaps to generate profits.
- Repayment fees for flash loans depend on liquidity pools in exchanges or fixed rates in protocols like Aave.
- Combining flash loan contracts with arbitrage projects allows the creation of Flash Swap bots for income generation.
- Challenges include internet limitations, locked liquidity pools, and the need for efficient identification and execution of arbitrage opportunities.

Technical skills