

Noah Khamliche

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<https://github.com/dextracker>

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Education

Purdue University Indianapolis, Indianapolis, IN
BS in Computer Science

August 2015 – May 2020

Skills

- Proficient in: Solidity, Typescript/Javascript, React, Foundry, Ganache/Hardhat/Anvil, Ethers/Web3.js, The Graph
- Designing, implementing, and productionizing smart contracts.
- Integrating high liquidity DEXs across the most popular chains
- Maintain and upgrade complex upgradeable proxy architectures used by the 0x protocol

Work Experience

0x Labs: Solidity Engineer

September 2022-present

- Wrote, tested, documented, and brought multiple solidity contracts to audit.
- Lead development of 0x-api for 4 months.
- Deployed and maintained the entire 0x protocol to multiple EVM compatible chains: Ethereum, BSC, Polygon, Optimism, Arbitrum, Fantom, Avalanche, Celo, and more.
- Built out a Foundry testing framework for 0x protocol CI that allowed for integration testing across all relevant EVM compatible chains, and migrated existing unit tests to solidity/foundry.
- Built out systems to integrate various market makers as a liquidity source for 0x-api utilizing RFQ orders.
- Designed, Implemented, and productionized new features for 0x-api to allow mixing of RFQ market maker orders and AMM's utilizing Multihop and Multiplex trades.
- Implemented Pool-Caching for Uniswap V3 to decrease gas overhead when sampling against Uniswap V3, resulting in significant improvements in pricing, and significantly decreased sampling gas usage .

0x Labs: Junior Solidity Engineer

August 2021-September 2022

- Maintained complex production smart contract systems handling billions of dollars in token approvals.
- Developed new features for the 0x Protocol: Extended the 0x Exchange proxy to be able to recover tokens stuck in the Exchange Proxy using a multisig.
- Integrated multiple different DEXs across multiple chains: Uniswap V2 and its forks, Uniswap V3, Curve, Lido, GMX, Lido, Trader Joe, etc...

API3: Smart Contract Integrations Engineer

April 2021-August 2021

- Member of the core development team at API3.
- Designed smart contracts to integrate and service the API3 Airnode dAPI ecosystem on multiple EVM compatible chains.
- Created Airnode integrated dApps and documentation to show Airnode use cases, as well as guide developers through connecting to the system, becoming a data provider, or becoming a data consumer.

CAITS-MSAS Developer (Part-time)

January 2019 – May 2020

- Individually designed, developed, and delivered multiple apps handling student and medical data to automatically notify students and patients of pending required documents or actions in line with HIPAA guidelines.

CAITS MSAS Developer Intern

August 2018 – December 2018

- Aided in the development of a full stack web application administration system for IU Medical School, in C#, ASP.NET, and MVC.
- Worked individually and in a team environment to develop software in a timely manner through code reviews, standups, weekly checkups.
- Experience maintaining and updating previous versions of enterprise software to eliminate bugs and modernize the system.

Defi Projects

FlyWheel Protocol (Internal 0x Hackathon winner)

Summer 2021

- Flywheel protocol is a NFT based yield aggregator, that defines a yield strategy, executes it and auto-compounds the rewards from any protocol on any EVM compatible chain that is consistent with the sushi swap 'MasterChef' interface.

LuniSwap (Limit orders on Uniswap V2)

Summer 2020

- Utilized Uniswap's open front-end interface to create an application that provides on-chain, long-lived, limit and stop orders that execute automatically, using a decentralized execution system..
- Created multiple smart contracts to handle and verify on chain data, and store users orders on chain
- Utilized gas savings techniques such as a pseudo gas token implementation and proxy clone factory contracts to reduce upfront and subsequent deployment costs for Uniswap limit orders.

Safe-Ape (Upgraded dashboard for uniswap-info)

Spring 2021

- Utilized the info.uniswap front-end interface to create an application that provides unique indicators and analytics on token pair data to Uniswap users.

Limit Order Matching Searcher

Spring 2023

- Created an MEV bot that searches and decodes mempool transactions from popular DEXs and matches orders with the 0x protocol open orderbook, and 1inch limit orders.

Defi Arbitrage Bot

Summer 2020

- Created an app utilizing Web3.js and NodeJS to monitor on-chain price data, perform arbitrage with flashloans from dydx, and execute on numerous DEXs including Uniswap.

Agoric Validator

November 2020

- Validator for the Agoric platforms private incentivized test-net.

Projects

Deep-fake Recognition Neural Network

IUPUI, Fall-Spring 2020

- Created an application utilizing image based Fourier transforms and convolutional neural networks, to detect whether a given image is a computer-generated image, or a genuine image. The recognition algorithm works at 90% accuracy.

Malaria Recognition Neural Network

IUPUI, Spring 2019

- Developed a neural network in Python and Flask, from a Kaggle data sets to determine if cells were infected with the malaria virus.