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Product Engineer | Smart Contract Developer

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WORK EXPERIENCE

Growth Product Engineer Alpaca Markets

04/2022 - Present

Remote

Tasks

- Build custom app integrations (eg: Slack, Zapier, etc.)
- Build web3 use-cases for Alpaca APIs
- Track using metrics the performance of said product launches
- Collaborate with the growth and developer experience teams to quantify the ins and outs of Alpaca's business

Hardware Test Engineer

Waymo

07/2019 - 02/2020

Mountain View, CA

Tasks

- Performed Mechanical, Electrical and Environmental testing, RCA
- Drive hardware validation with a focus on custom hardware

Hardware Test Engineer

Sanmina and Zollner Electronics

05/2017 - 07/2019

San Jose, CA

Tasks

- Create test plans, perform yield loss analysis, schematic reviews and execute debug, validation and transitioning the project to production
- Developed and Implemented automation for data collection

EDUCATION

MEng. Electrical and Computer Engineering University of Waterloo

01/2021 - 05/2022

Waterloo, Canada

Specialization

- Machine Learning and Artificial Intelligence

BSc. Electrical Engineering Purdue University

08/2012 - 12/2016

West Lafayette, IN, USA

SKILLS

Solidity

Python

C++

Pinescript

Hardhat

React

Remix

Brownie

Typescript

PROJECTS

Polydocs (07/2022 - Present)

- Built a tool that helps create smart documents for smart contracts.
- Base contract library and tool to help onboard projects that want to protect their IP, terms, etc.

DeTi (05/2022 - 06/2022)

- Build a decentralized cron scheduling service to fire canisters on Internet Computer
- Worked on Frontend scheduling and DIP-20 implementation

Polynodes (04/2022 - 05/2022)

- Built a low-code tool to deploy Chainlink nodes and Oracle contracts on Polygon Mainnet and Mumbai in under 10 mins
- Built Alpaca Feeds as a reference implementation of Polynodes

Time Limited Tokens (03/2022 - 04/2022)

- Added Time Limited rights to ERC-721 tokens that allows for atomic leasing
- Created a reference implementation for an EIP

DEX - CEX Arbitrage (04/2022 - 04/2022)

- Created an arbitrage bot to go long/short on crypto assets between Decentralized and Centralized exchanges
- Used Alpaca and 1Inch APIs for market data and trade execution

Driver Behaviour Learning (06/2021 - 08/2022)

- Worked with Prof Mark Crowley and UWECEML lab on multi-modal data in fixed scenarios
- Performed Feature Extraction and Analysis on a dataset of drives
- Created a vanilla LSTM model to predict distance to the preceding target vehicle

ACHIEVEMENTS

HackFS: Finalist (07/2022 - 07/2022)

Finalists at HackFS hosted by ETHGlobal

Chainlink Hackathon: 2nd Place (04/2022 - 05/2022)

Won 2nd Place prize for Chainlink services category for Polynodes

Microgrant by IPFS (03/2022 - Present)

Awarded Microgrant by IPFS to further the Open Source development and deployment of reference contracts for Time Limited Tokens Project

Web3Con: 3rd Place (03/2022 - 04/2022)

Won 3rd place bounty from IPFS/Filecoin at Web3Con for Time Limited Tokens Project