# Piotr Ostrowski

Portfolio: piotrostr.com Github: github.com/piotrostr

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#### EDUCATION

Lancaster University

Lancaster, United Kingdom October 2019 - Present

BSc with Hons Finance and Economics

Courses: Quantitative Finance, Econometrics, Mathematical Economics, Financial Markets

Graduation date: July 2022

### SKILLS SUMMARY

• Languages: Python, TypeScript, Solidity, Golang, CSS, Bash

• Frameworks: Pytest, Mocha, PyTorch, ONNX, TensorFlow, Django, Hardhat, React (NextJS/Gatsby), NestJS Tools: Docker, Terraform, Kubernetes, Git, Git Actions, Nginx, GraphQL, PostgreSQL, MongoDB

#### EXPERIENCE

**SMPLverse** Remote

AI/Blockchain Developer (Part-time, Contractual)

February 2022 - Present

- o Full Stack NFT Web Application: Use face detection and recognition networks to match the user's webcam image against one of the synthetically generated art pieces.
- Smart Contract: Implemented all of the business logic in the smart contract achieving 100% unit-test coverage
- o Scaling, IPFS content delivery & deployment: Creation and maintenance of the application architecture to handle the launch without issues.

Tipmi Limited Remote

AWS/React Native Developer (Full-time, Contractual)

December 2021 - February 2022

o Tipmi App: Polished an iOS mobile application for a Stella Artois partner company aiming aiming to gather members of the hospitality industry to facilitate the process of tipping.

University of Calgary

Remote

React and Python Developer (Full-time, Contractual)

June 2021 - July 2021

o MDAPy: Created a geology web application enabling applying geologic methods to produce summary tables and various graphs for MSc thesis of one of the students

## Health Token LTD (\$HELTH)

Lead Developer (Part-time)

August 2020 - June 2021

- Health Token: Created a token to incentivize creators in the health industry to share their knowledge.
- o Mobile Application: Coded a Health Handler iOS app that allows users to use the \$HELTH knowledge base to create personalised meal plans using the 'tinder-swipe' functionality.
- Impact: The Health Token's community reached over 2500 users and the token reached a peak market cap of \$1.6m.

## ExpoitOps (small poker software start-up)

Remote

Full Stack Developer (Full-time)

August 2020 - February 2021

- Complete games log from online poker gameplay recording: Achieved +90% accuracy designing algorithms for continuous real-time online poker detection and recognition.
- o Training and inference of computer vision AI models: Created an algorithm to detect and recognize cards YOLOv4 model and OCR networks and achieved over 95% accuracy.
- Acceleration of inference: Exported all of the algorithm's models into TensorRT and obtained nearly 10x speed-up.

# Projects

- EduLAB / pTAG: Ultimate goal of the project was to train a model for detecting autism spectrum disorders among children. Research and evaluation of cutting-edge eye-tracking papers and ways of intrinsic and extrinsic camera calibration. Implementation of papers, development of non-hardware AI-based eye-tracking solution to be used to collect data.
- Guardian Protocol: Development of a full stack DeFi yield web application. Research and development of smart-contracts implementing zero-coupon DAI bonds and a creation of a frontend interface for calling the contracts' methods.
- FootballMOT: Applied FairMOT, originally trained for pedestrian detection to detect and label football players, to be used to perform strategic analysis of football games.

## Volunteer Experience

Lancaster University Investment and Finance Society - VP IT Developed and maintained the society's website for 500+ members

Lancaster, United Kingdom June 2020 - January 2021

Lancaster University Ghosal Investment Fund - Portfolio Manager

Automated the retrieval of financial data to display portfolio metrics for 58 analysts

Lancaster, United Kingdom January 2020 - June 2020