

Piotr Ostrowski

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EDUCATION

- Lancaster University** Lancaster, United Kingdom
BSc with Hons Finance and Economics
Courses: Quantitative Finance, Econometrics, Mathematical Economics, Financial Markets
Graduation date: July 2022
October 2019 - Present

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
 - 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
 - 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
 - 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
 - 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 (\$HEALTH)** Remote
Lead Developer (Part-time) August 2020 – June 2021
 - Health Token:** Created a token to incentivize creators in the health industry to share their knowledge.
 - Mobile Application:** Coded a Health Handler iOS app that allows users to use the \$HEALTH 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.
- ExploitOps (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.
 - 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** Lancaster, United Kingdom
Developed and maintained the society's website for 500+ members June 2020 – January 2021
- Lancaster University Ghosal Investment Fund – Portfolio Manager** Lancaster, United Kingdom
Automated the retrieval of financial data to display portfolio metrics for 58 analysts January 2020 – June 2020