Piotr Ostrowski

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EDUCATION

Lancaster University — Lancaster, United Kingdom
BSc with Hons Finance and Economics — *October 2019 - Present*

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*
- **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 ($HELTH) — 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 $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.
- **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*