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*