

# 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, Go, Rust, CSS, Bash, SQL
- Frameworks:** Pytest, Mocha, PyTorch, ONNX, TensorFlow, Django, Hardhat, React, Angular, NestJS
- Tools:** Docker, Terraform, Kubernetes, Git, Git Actions, Nginx, Spanner, PostgreSQL, MongoDB

## EXPERIENCE

- Google Cloud** Dublin  
*Cloud Technical Resident (Full-time)* July 2022 - Present
  - Semantic Search:** Learnt Angular and LLMs to collaborate on development of \$3.3M+ ACV AI-driven Proof of Concept solution for a large bank. Demo of the solution was presented as one of three Generative AI industry use-cases in an organization-wide live-stream.
- SMPLverse** Remote  
*AI/Blockchain Developer (Part-time, Contractual)* February 2022 - June 2022
  - Full Stack NFT Web Application:** Used 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:** Launched without issues and maintained SLOs the entire lifecycle.
- 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