

# Piotr Ostrowski

Portfolio: [piotrostr.com](http://piotrostr.com)

Github: [github.com/piotrostr](https://github.com/piotrostr)

Email: [piotr.ostrowski@aol.com](mailto:piotr.ostrowski@aol.com)

Mobile +48602490248

## EDUCATION

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

## SKILLS SUMMARY

- Languages:** Python, TypeScript, Solidity, Golang, CSS, Bash
- Frameworks:** Pytest, Mocha, PyTorch, Flask, ONNX, TensorFlow, Django, Hardhat, React, NestJS
- Tools:** Docker, Terraform, Kubernetes, Git, Nginx, GraphQL, PostgreSQL, MongoDB

## EXPERIENCE

- ExploitOPS (small Poker software start-up)** Remote  
*Full Stack Developer (Full-time)* August 2020 – February 2021
  - Discussion Forum Upgrades:** Achieved +90% accuracy designing algorithms for continuous real-time online poker detection and recognition
  - Training and inference of computer vision AI model:** 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.
- Health Token LTD (\$HEALTH)** Remote  
*Lead Developer (Part-time)* August 2020 – June 2021
  - Health Token cryptocurrency:** Created a token to reward creators in the health industry for sharing 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's community reached over 2000 users and the token reached a peak market cap of \$1.6m
- 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.

## PROJECTS

- Vison - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing):** (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision):** AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- Drag-n-drop machine learning learning environment (Web Development, Machine Learning):** Scratch like tool for implementing machine learning pipelines along with built in tutorial for each concept. Tech: Python, JavaScript (September '18)
- Search Engine and Social Network(Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML ( May '12)

## 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