

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
October 2019 - Present

SKILLS SUMMARY

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

EXPERIENCE

- ExpoitOPS (small Poker software start-up)** Remote
Full Stack Developer
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 (\$HELTH)** Remote
Lead Developer
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 \$HELTH knowledge base to create personalised meal plans implementing the 'tinder-swipe' functionality
 - Impact:** The Health's community reached over 2000 users and the token reached a peak market cap of \$1.6m
- Health Token LTD – CTO & Lead Developer August 2020 – June 2021** Remote
Instructor (Part-time, Contractual)
Dec 2018 - Present
 - Project Course - Find Movie Similarity from Plot Summaries:** Created project based course using Unsupervised learning and natural language processing.
 - Tutorial - Introduction to Reinforcement Learning:** Created tutorial for Q-learning RL algorithm and concepts.
 - Impact:** Course has been taken by 250+ students so far with 4.65 average rating.

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