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*

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 – 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.

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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*