Piotr Ostrowski

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EDUCATION

- **Lancaster University**
  BSc with Hons Finance and Economics
  Courses: *Quantitative Finance, Econometrics, Mathematical Economics, Financial Markets*

  Lancaster, United Kingdom
  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

- **Google Summer of Code - Submitty**
  Student Developer (Full-time)

  Remote
  May 2019 - Sep 2019

  - **Discussion Forum Upgrades**: Refactor forum for performance to handle large databases.
  - **REST API for Discussion Forum**: Symphony & Twig based Forum parts converted to API-first interface.
  - **Ratchet PHP WebSocket**: Implemented a WebSocket for low-latency real time exchange of posts and thread updates.

- **DataCamp Inc.**
  Instructor (Part-time, Contractual)

  Remote
  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

- **Community Lead at Developer Student Clubs NSEC**
  Conducted online and offline technical & soft-skills training impacting over 3000 students.

  Kolkata, India
  Jan 2019 - Present

- **Event Organizer at Google Developers Group Kolkata**
  Organized events, conducted workshops and delivered workshops reaching over 7000 developers.

  Kolkata, India
  Jan 2018 - Present