ALEXANDROS FRANGOS

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EDUCATION

University College London (UCL), *MEng Computer Science - High 2:1* **London, UK | Sep '17 – Sep '21**
Master's Thesis: Estimating Tissue Microstructure Using Deep Learning Techniques (*First Class Honours*)
Relevant Modules: Supervised Learning, Data Mining & Analysis, Graphical Models, Statistical Natural Language Processing (Taught by Facebook AI Research), Complex Networks & Web, Software & Systems Engineering, Financial Institutions & Markets

IMS Private School, *A Levels - A** **Limassol, Cyprus | Sep '14 – Jun '16**
A Level Subjects: Mathematics (*A**), Further Mathematics (*A**), Physics (*A**)

Saint John Lyceum, *Apolytirion - 18.1/20* **Limassol, Cyprus | Sep '13 – Jun '16**
Specialised Subjects: Mathematics, Physics, Computer Science, Technology

WORK EXPERIENCE

Amazon, *Data Science Intern* **London, UK | July '21 - Dec '21**
- Performed an in-depth analysis demonstrating the benefits that a warehouse optimisation project would bring to operations by simulating the current state of operations and discussing the findings in the white-paper prepared for leadership.
- Delivered an end-to-end optimisation, speeding up a web-scraping process by a factor of 40 and making data easily accessible through Amazon's RedShift service.
- Built a comprehensive dashboard using PowerBI for showing recirculating shipments to warehouse associates.
- Worked on a time-series anomaly detection model predicting the number of recirculating shipments, in order for warehouse associates to be alerted in case of emergency at any stage of the relevant pipelines.

Amazon, *Business Intelligence Intern* **Edinburgh, UK | Jun '20 - Sep '20**
- Successfully delivered an end-to-end project analysing the volumes arriving, departing and being sorted at each of Amazon's UK Sort Centres.
- Through extensive use of SQL and Amazon QuickSight, achieved the optimisation of process levels, including but not limited to the time it takes for trailers to be unloaded and discrepancies between the estimated and actual arrival times.
- An automated dashboard forecasting future volume flows was also developed, and this is now adopted by the Operations department of Amazon leading in fewer labour-hours for the Amazon's workforce.

Deloitte, *Cyber Security Intern* **Limassol, Cyprus | July '19**
- Extensively interacted with cyber security tools such as nmap and Wireshark for penetration testing, and successfully discovered a vulnerability on one of the firm's major clients.
- Worked on identifying security flaws of the ARIS (A Really Inspiring Space) website, the startup accelerator programme of Deloitte and Bank of Cyprus.

KPMG, *Audit Intern* **Limassol, Cyprus | Jun '19**
- Prepared financial documents such as invoices, bills and accounts payable and receivable.
- Involved in the monthly stock taking procedures for preparing the management accounts of one of the largest pharmaceutical companies in Cyprus, exploring and understanding the possibilities that AI can bring to Auditing.

Cypriot National Guard, *Corporal* **Limassol, Cyprus | July '16 – Sep '17**
- Gained crucial team-working and leadership experience by serving at an ammunition depot. Duties included managing a group of 15 soldiers and regularly checking that the ammunition was stored safely under the right conditions.

MAJOR PROJECTS

Statistical Natural Language Processing **London, UK | Jan '21 - June '21**
- Completed an NLP project as part of a 4-member team and supervised by Facebook AI Research.
- Compared three current state of the art abstractive text summarisation models for the task of summarising WikiHow articles: Generative Adversarial Net (GAN), Sequence to Sequence (seq2sec) model with a single Attention Mechanism using Gated Recurrent Neural Network and a Sequence to Sequence model using transformers.

Information Retrieval & Data Mining **London, UK | Jan '21 - May '21**
- Developed a series of information retrieval models solving the problem of passage retrieval, similarly to how certain search engines operate by efficiently returning a ranked list of short passages relevant to a given query.
- Built upon more advanced retrieval models such as Logistic Regression, LamdaMART and Neural Networks.

Complex Networks & Web **London, UK | Sep '20 - Dec '20**
- Used data of 206 institutions and 4988 people with a PhD from a certain institution and a job at another institution, to analyse the importance that the prestige score of an institution plays in hiring graduates at other institutions, using a directed-multigraph network structure.

Applied Software Development (Great Ormond Street Hospital) **London, UK | Sep '18 - May '19**
- Participated in the Sensor Fusion project of GOSH as the leader of a three-member team, which helps to predict unsuccessful surgeries and warn medical staff about them. We utilised a network of sensors that produce timestamped data in different rooms of a hospital, for analysing them on the cloud and generating alerts in case of an abnormal situation.
- The front-end was developed using ReactJS and the back-end using Django. The communication between the front-end and the back-end is done via REST API and the entire platform is hosted on a Microsoft Azure Virtual Machine.

LANGUAGES & SKILLS

Languages: Greek (Native), English (Fluent)
Skills: Python, SQL, PowerBI, Amazon QuickSight, GitHub, C**,** Java, Haskell, Javascript, AWS (Redshift, S3, Lambda, SageMaker)