JONATHAN K. Y. TANG

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EDUCATION

Goldsmiths, University of London
BSc (Hons) Computer Science | September 2017 – June 2020
First Class Honours (Predicted)

Thesis: Deep Sequential Learning for Option Pricing

Relevant modules: Advanced Algorithms and Data Structures, Machine Learning, Neural Networks, Mathematical Modelling

Activities: Hockey Club (2019-20 President & 2018-19 Secretary-Treasurer), Chamber Choir, Hacksmiths Tech Society

University College School, Hampstead
A Levels & GCSEs| September 2006 – June 2017

3 A Levels in Mathematics, Computer Science and Physics

Honours: President of Sixth Form Common Room

COMPUTING SKILLS

Languages
Python, C++, Java, R, Matlab, MySQL, MongoDB, JavaScript, HTML, CSS, LaTeX

Tools
Git, AWS, Jupyter, Tableau

Operating Systems
MacOS, Linux/Unix, Windows

VOLUNTEERING

ICC Men's Cricket World Cup 2019
Cricketeer | June 2019 - July 2019
- Placed in the Spectator Services team, at Lord's Cricket Ground, London.

England & Great Britain Hockey
Hockey Maker, Women's World Cup 2018 | June 2018 - August 2018
- Placed in three divisions: Logistics, Event Services (Access Control), and Spectator Services.

University College School Community Action Committee
Chairman | September 2016 – December 2016
- Oversaw 31 events, leading a team of eight people.
- Raised over £30,000 for six charities in seven weeks.

PROFESSIONAL EXPERIENCE

CITI | *London*
Technology Summer Analyst | June 2020 - August 2020
- Division: Global Markets Technology

DEUTSCHE BANK | *London*
Strats Summer Analyst | June 2019 - August 2019
- Created profit and loss (PnL) forecast models for FX trading desks, and reporting on Currency Volatility Index vs PnL correlation using Python, Clickhouse, and Tableau. Presented findings to FX Finance team.
- Worked in a team to develop a deep learning news article sentiment analysis system using an LSTM recurrent neural network with Python, Tensorflow, Keras, and enforced the Agile SDLC.
- Competed in the intern/graduate hackathon to build a graduate job matching system.
- Hosted sessions for other interns and graduates about the FX business, and the strats group.

GETRENTR | *London*
Machine Learning & Data Science Intern| June 2018 - September 2018
- GetRentr is an AI-PropTech start-up that aggregates property regulation and compliance data in relation to the private rental sector
- Collected, cleaned and aggregated over 300,000 properties from leading rental websites for presentation to the Greater London Authority and Ministry of Housing.
- Worked in a team to build a machine learning prediction cost model based on the property rental market.
- Conducted natural language processing on over 10,000 tweets and news articles about property rental market compliance and filtering for internal use on Slack.
- Visualisation of over 4.8 million companies from the HM Companies House database to track rogue landlords.

JOHN LEWIS PARTNERSHIP | *London*
Retail Data Analytics Intern | August 2016
- Reporting on in-branch vs. online sales in under-performing catchment areas, using the Acorn demographics data set.
- Analysis of 2000 NPS surveys on navigational aspects of the website, and using data from Adobe Omniture to increase user experience.

PROJECTS

Augmented Reality Navigation System for Commercial Spaces *(link)*
- Researching and creating an augmented reality indoor museum navigation system with the A* path-finding algorithm.
- Developed for Android devices using Java, Kotlin, and ARCore
- Enforced Agile with Scrum SDLC, with the Scrum Master role.

European Union and Global Trade Visualisation *(link)*
- Visualising over 90 datasets from Eurostat on imports and exports of goods and services within the EU28, along with other key international trade countries.
- Using JavaScript (p5.js, d3.js, c3.js), HTML, CSS, Python, and the Google Maps API.

LANGUAGES

English & Cantonese Chinese – Bilingual Proficiency (Written and Spoken)