ISABELLA SHARPLEY

Data Engineer

ABOUT ME

During my time living in one of China's most polluted cities, Jinan, I had eye-opening experiences in many ways. However, seeing the negative effects of uncontrolled pollution every day left the biggest impression and spurred my ambitions to find a solution.

I learnt how data techniques are being used to tackle this problem by combining real time data from social media, sensor data on the ground and meteorological satellite data to monitor and forecast air pollution accurately.

I am fascinated by the variety of potential applications and the amount of useful knowledge yet to be tapped from all the data we have and constantly create. In my spare time, I practice Yoga and recently even came across a company called SmartMat which are in the progress of producing a smart yoga mat that tracks and scores postures and moves to improve Yoga practice. Needless to say, everyone and everything can benefit from the analysis of data.

As well as yoga, I enjoy learning and challenging myself with new topics – from participating in web development courses to teaching myself Jazz piano. I am also a keen cyclist and love going to the theatre.

CONTACT US

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OVERVIEW

I graduated from University College London in 2015 with a Masters degree in Physics. During my degree, I often analysed large quantities of data to find insights or prove physical laws in the laboratory. This lead to the collection and analysis of a large volume of data in my Master's project, which involved probing the hydration mechanism of cement at the microstructural level via x-ray diffraction methods. It was a challenge to transform such a large amount of experimental data into useable information whilst maintaining the integrity of the information. This reaffirmed for me the importance of good data and is what initially drew my attention to data analysis and big data.

After university, I tutored GCSE Mathematics in schools in Southwark and Westminster for 4 months before going to learn Mandarin and more about Chinese culture for one semester at Jinan University on a British council scholarship.

Upon returning from China, I deepened my previous research into the data field and subsequently applied for a role at Kubrick Group.

WORK

DATA ENGINEER – KUBRICK GROUP, LONDON

March 2017 – present
In addition to intensive learning, whilst at Kubrick I have worked in agile teams on many client projects deepening the skills I have learned.
The Data projects which I have worked on have proven my skills in efficiently engineering very large datasets across a cluster. This has enabled me to deepen my analytical skills, both through data visualisation in Tableau and Plot.ly and through predictive modelling using the Python SkLearn module.
Examples of value I have added to businesses include insight derived from real time streamed social media analytics, as well as predictive insights extracted from client side data warehouses.

MANNING'S TUTORS, October 2015 – February 2016
I enjoyed motivating students to achieve their best in their exams.

VARIOUS RETAIL/CUSTOMER-FOCUSED ROLES IN LONDON, 2012 – 2016
I developed strong teamwork and communication skills while working across various customer focused roles, including retail jobs in Boots and John Lewis, working as street food market trader, market research interviewer and stewarding at events.

EDUCATION

UNIVERSITY COLLEGE LONDON, PHYSICS MSCI, 2.1, 2011 – 2015

Notable modules included: Atom and Photon physics (masters level) 83%, masters project 77%.

Activities and societies: I was a keen member of the UCL film, yoga and meditation societies. I participated in UCL language summer school twice and volunteered in projects such as The Street Store – an open source pop-up event providing clothes and lunch for homeless people – and at the Open City Docs festival based at UCL.

ADDITIONAL TECHNOLOGY SKILLS:
I completed modules in Matlab and Mathematica as part of my degree.

UNIVERSITY OF JINAN, February 2016 – July 2016
I studied Mandarin for 5 months at the University of Jinan.

KEY SKILLS

I am experienced and qualified in the following technologies and disciplines:

Data Skills:	SQL, Python, Pandas and SciPy, SkLearn, Tableau, Plot.ly,Hadoop, Apache Spark & MongoDB
Security Skills:	Git, Security and Kerberos, SSH & Linux, GDPR
Data Warehousing:	Data Warehousing in T-SQL, Hive & Kimball methodology
SDLC:	Agile, problem solving
Documentation:	LaTeX and Markdown
Soft Skills:	Presentation skills
Specialisms trained in:	Retail, AML, Credit Risk
Certifications:	Cloudera Certified Associate (CCA) Hadoop & Spark Developer

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