RACHEL CROSS

Data Engineer

ABOUT ME

During my A Levels I competed in a county wide Maths Challenge competition. I found analysing problems under pressure and thinking laterally to solve them stimulating. It was this that inspired me to study mathematics at university.

Throughout my education, I worked as a self-employed maths tutor. Very early on I found that I am good at, and enjoy the challenge of, making complex concepts easy to understand for my students. I further developed this skill when working at Moore Stephens, where I frequently explained the methodology behind our testing to those who were not from an accounting background.

I am a trustee of a charity which provide holiday clubs for disabled children. This involves working closely with the local council, leading the clubs, and liaising with parents and children.

I enjoy discovering new places, going inter-railing, getting to know different cultures, and taste local food. I am a keen baker and bake regularly for friends and family.

CONTACT US

Kubrick Group

T: 020 3866 4620

E: consultants@kubrickgroup.com

W: kubrickgroup.com

OVERVIEW

In 2016, I graduated from the University of Surrey with a First Class degree in Mathematics. During my time at university I completed modules which involved using R and MatLab to analyse data. While working on final year projects, I used R to fit ARIMA models to data taken from the FTSE 100, and MatLab to solve linear systems for a module entitled 'Numerical and Computational Methods'. My enjoyment of these modules initially sparked my interest in a career in data analysis.
After graduating I spent some time at the insurance company ECIC, where I used advanced Excel to perform a company-wide analysis of their brokers. Knowing I had provided insights which would help move the business forward brought me great satisfaction and cemented my desire to work in the field of Data.

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.

ACCOUNTS ASSISTANT – MOORE STEPHENS (FORMERLY CHANTREY VELLACOTT)

August 2014 – July 2015
I tested and analysed client accounts, frequently uncovering issues and discrepancies using further financial analysis.

EDUCATION

BSC MATHEMATICS 1ST CLASS, UNIVERSITY OF SURREY

2012 – 2016
Notable modules and marks include:

Statistical Methods with Financial Applications – 78%
Used a variety of techniques and statistical methods within discrete stochastic time series analysis, to fit financial models to real data.

Mathematical Ecology and Epidemiology – 80%
Modeled ecological and epidemiological problems using differential equations (ordinary, partial and delay). Interpreted the results of the analysis and made predictions.

Numerical Solution of Pdes – 80%
Wrote and ran code to solve partial differential equations using MatLab.

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