

## OVERVIEW

Having completed an Bsc in Mathematics with Finance and an Msc in Financial and Computational Mathematics it is clear my interest is to apply mathematics to the financial industry. Throughout my studies however using Big Data for prediction in time series analysis and statistical inference in my dissertation was I able to understand the value of the findings and the implications it would have. My desire to work in Big Data was strengthened through further analysing market data as a trader for six months and continuing to develop my analytical skills using C++ and R.

## WORK

### BIG DATA ENGINEER – KUBRICK GROUP, LONDON

At Kubrick Group I gained experience and qualified in: Professional and Communication Skills, IOC (Investment Operations Certificate) Level 1, Advanced Excel, Web Application development (UI/UX, JavaScript, CSS and HTML), Agile and SQL.

I then specialised in the Big Data Engineering course leading to accreditation as a Cloudera CCA Developer.

#### October 2016 – present

I worked on Big Data projects which exercised my skills in data ingestion and processing using Hadoop EcoSystem tools such as Sqoop, Flume and OpenSource Python Libraries including Pandas and Twython. We cleansed and munged data after exploratory data analysis through Python libraries including Plotly and Pandas then moving onto Spark to process, transform, analyse and stage the data into HDFS.

Projects included:

MetOffice Weather Data: involving Python API and Twitter processing into HDFS followed by further processing in the Hadoop Ecosystem.

Police Crime Data Analysis involving SSIS processing, SQL Analysis, and presentation through custom web front end.

### PHARMACY BUSINESS MENTOR

#### September 2015 – May 2016

Business simulation module which involved mentoring students in leadership and management. Managed teams and provided outside perspective and consultation to help achieve business goals.

### MET TRADERS

#### September 2014 – March 2015

Involved Managing risk and taking day-to-day dynamic decisions that were constantly being reviewed in ever changing conditions. Executed trades in Brent oil, West Texas Intermediate, Euribor and Eurodollar Furthermore developed and applying intra- commodity spreads strategies by using hedged structured products.

## EDUCATION

### MSC FINANCIAL AND COMPUTATIONAL MATHEMATICS, MERIT 2013 – 2016

University of Nottingham

### BSC MATHEMATICS WITH FINANCE 2011 – 2014

Univeristy of Manchester

### TECHNOLOGY SKILLS:

**R:** I have used R extensively in various projects such as time series analysis to model and predict future house prices and my MSc dissertation for statistical inference and modelling.

## KEY SKILLS

### Python Libraries (Anaconda):

PyMongo, Pandas, Numpy, scikit learn, Plotly and Twython

### Cloudera Hadoop version 5.4:

HDFS, Yarn, Sqoop, Flume, Avro, Parquet, Impala, Hive and Hue

### NoSQL:

MongoDB. API with PyMongo

### SQL:

SSIS, Advanced T-SQL and Stored Procedures

### Apache Spark:

RDD, DataFrames, SparkSQL, PySpark with some exposure to and understanding of Scala

### Source Control and IDE:

Git, SourceTree and Git Extensions, PyCharm

### Other Skills:

Linux CentOS 6, SSH, Putty, Agile, JSON and BSON, Python Pickle and Shelve



ZAHRAH SHARIF

Big Data Engineer

## ABOUT ME

Having developed a strong interest in the financial industry and financial mathematics in particular during my time at university, I started working at Met Traders after I graduated. I thrived in the fast paced, dynamic environment the trading house provided and especially enjoyed analysing Brent or WTI data for trends to gain strategy insight.

During my time at Met Traders the development of a high frequency trading desk required in-depth knowledge on analysing huge data sets. This led me to further my studies by undertaking an MSc and subsequently pursue a career in Big Data Analytics.

Besides my academic interests, I have extensively travelled and volunteered overseas. I have also cycled from London to Paris for Breast Cancer Awareness and was social secretary of the athletics team at my university.

## CONTACT US

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