



## JACOB PRYCE

Big Data Engineer

### ABOUT ME

Despite maths being a very theoretical subject, my choice of modules exposed me to problem solving using real world examples. Examples ranged from finding optimal investment strategies to hedge against risk, to determining the parameters in order to predict the outcome of diseases, to modelling predator and prey interaction. The even more tangible solutions data analysis provides is what fuels my passion for the field.

I am a recipient of the University of Birmingham Personal Skills Award (Advanced). This award is aimed to enhance professional skills.

Skills enhanced included presentation competencies, working in a team, commercial awareness and networking. It increased my confidence in the working environment.

I believe knowledge is power and have a passion for learning and teaching others. I am an avid reader of books, mainly focusing on social sciences and politics and am currently learning Spanish. At university I was part of the fencing, gymnastics, salsa and toastmaster society. The latter significantly improved my public speaking skills. For the last 10 years I have been responsible for the upkeep of all IT services at my local church.

### CONTACT US

Kubrick Group

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## OVERVIEW

I graduated from the University of Birmingham with a First-Class Honours BSc in Mathematics in 2017. There I undertook a plethora of applied modules including Statistical Methods in Finance and Economics, Medical Statistics, Mathematical Finance and Numerical Methods and Programming. In my final year I undertook a statistical project called "Factors that affect wage earnings". This involved using SAS to analyse a dataset containing individuals' salaries and other characteristics such as age, gender and number of children in the family to establish if associations exist. The results showed evidence of a higher salary with being middle aged and male with a larger number of children.

This was the first time I encountered data in such a way and the satisfaction from exploring the information using SAS led me to research other coding languages and ways to analyse information which eventually led me to Kubrick.

## WORK

### DATA ENGINEER - KUBRICK GROUP - LONDON

September 2017 - Current

At Kubrick Group I gained knowledge and real world experience in professional skills, a wide yet in depth array of modern technical and analytic skills. We studied the agile software development lifecycles and gained detailed knowledge of platforms and infrastructure.

I specialised in Data Engineering which involved learning and developing advanced skills in Python, Spark, Hadoop, NoSQL and SQL as well as advanced Excel - these lead me to work towards accreditation as a Cloudera Hadoop CCA Developer.

As a junior data consultant I applied my skills on real client projects including:

- Seasonality correlation to sales for a large retail client.
- Feature analysis for a large financial services client providing HR with churn rate modelling against different employee profiles.

The projects were developed in agile teams using Git and Kanban boards following agile processes in the presence of an agile coach. Delivery of the projects used virtual environments and Docker. The professional skills I have acquired and matured were invaluable in these projects.

### VOLUNTARY "GLOBAL BUDDY", UNIVERSITY OF BIRMINGHAM

September 2016 - June 2017

I was the point of contact for several international students and took responsibility to make them feel comfortable in their new and unfamiliar environment speaking a foreign language.

### SALES ASSISTANT, CARD FACTORY, BIRMINGHAM

October 2014 - December 2014

Duties involved providing in store customer service and cashiering.

### VOLUNTARY MATHEMATICS TUTOR, SATURDAY SCHOOL, BIRMINGHAM

September 2013 - June 2014

I applied understanding, patience, and problem-solving skills in my weekly role as a mathematics tutor for GCSE students.

## EDUCATION

### BSC (HONS) MATHEMATICS WITH INTERNATIONAL YEAR AT THE UNIVERSITY OF BIRMINGHAM

2013 - 2017

**Degree classification: First class.**

My final thesis was titled "The important discovery of the Heat Equation". The Heat Equation is a formula used in Mathematics which models the distribution of heat over time within a material. The purpose of the paper was to explain the concept in a way that could be understood by the layman. I showed how the heat equation was discovered, how it changed the future of Mathematics, and why it is important using real world examples. Examples included its use in modelling heat distribution in human tissue, modelling temperature change as ice melts into water, and image processing.

### Year abroad at The University of Adelaide, Australia

2015 - 2016

**Modules taken include:**

Engineering Mathematics, Philosophy, Anthropology, Indigenous studies, and Mandarin Chinese.

Achieved overall score of 75%.

## KEY SKILLS

### Python Libraries:

Pandas, Numpy, SK Learn, NLTK, PyMongo and Plotly

### Cloudera Hadoop version 5.4:

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

### NoSQL:

MongoDB, Neo4J

### SQL:

SSIS, Lavastorm, Advanced SQL

### 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:

Datalku, Linux CentOS 6, SSH, Putty, Agile