



## RACHEL BUDDEN

Big Data Engineer

### ABOUT ME

I discovered I wanted to work with data after writing a research report for an assignment in an innovation and technology module I took in my final year. I chose to look at the influence of pharmaceutical patent protection on the innovation and availability of HIV medicines. Having complete control of sourcing, cleaning and analysing the data to answer self-generated questions, spurred my interest in effective data analysis techniques and statistical methods.

My previous experience in data analytics has strengthened my desire to work in a role that deals with the rapidly changing demands of the data landscape; such as the challenges associated with handling big data.

I am interested in volunteering, especially concerning education and environmental conservation. My most interesting volunteering involved spending a summer living on Tanzania's Mafia Island, undertaking underwater surveys to assist with the Marine Park's sustainability of fishing research. I am also a keen skier and upon graduating I spent 6 months pursuing this interest.

### CONTACT US

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### OVERVIEW

I am a graduate of the University of Manchester, with a first-class degree in Mathematics with Business and Management. For the past year, I have worked as a data analyst for an analytics company that enables clients to deliver intelligent, data-driven marketing. In this role, I became competent in using SAS to manipulate and analyse large quantities of data. I also learnt how to simplify otherwise complicated concepts into useful pieces of insight using data visualisation software such as Tableau. I was lucky enough to work with clients from a diverse range of industries including charities, government organisations and financial regulators. The work I most enjoyed involved creating a regression model for a charity and designing a range of maps to illustrate a complex data finding for a financial regulator.

### 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.

#### DATA ANALYST, MARKETING METRIX, LONDON

September 2016 - September 2017

I used SAS daily to carry out data cleansing, processing, analysis and profiling tasks and delivered marketing insight through the application of statistical methods to large data sets.

**Project example:** I used logistic and cox regression scripts in SAS to predict which of a charity's donors were most likely to increase their future donations.

Utilising data visualisation tools, Tableau and MapInfo, I delivered complex data interpretations as clear and insightful business solutions.

**Project example:** I created bespoke maps for a client to illustrate areas of the UK where people more likely to be at risk of using unauthorised money lenders reside. This uncovered areas that were previously overlooked. Clients were able to use these maps as basis for further research.

#### EXPENSE MANAGEMENT ANALYST, THE REALIZATION GROUP, LONDON

2015-2017

I managed the internal monthly spend monitoring and developed an automated solution in Microsoft excel that reduced the monthly expense management procedure from days to hours. I continued to improve the process as my knowledge of Excel grew.

### EDUCATION

#### UNIVERSITY OF MANCHESTER, MATHEMATICS WITH BUSINESS AND MANAGEMENT, 1ST CLASS

2011 - 2015

Core mathematical knowledge including statistics, linear algebra, financial mathematics. Business and management modules including Financial Reporting, Strategy, Technology & Innovation.

Basic exposure to R and MATLAB.

### 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

#### 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