



ABIGAIL OMAN

Big Data Engineer

ABOUT ME

My passion for data was sparked by my use of the internet and social media, particularly how our digital fingerprint is providing one of the largest sources of big data. I am intrigued by how this data can help increase sales within a company. For example, Coors used local weather data to run a promotional Facebook ad at specific times. This increased their customer engagement more than a regular advert and in turn influenced sales.

I pride myself on being proactive and hardworking, which I demonstrated from a young age. In year 13, I taught myself an extra AS-level in Further Mathematics as I knew this would get me into the university I wanted. During that time, I also won an award for being 'The Most Optimistic Person', highlighting my positive and friendly personality. Whilst at university I enjoyed getting involved in various charity activities such as a project for walking rescue dogs and a 'Mud Run' for Cancer Research.

Outside of work I enjoy sports, particularly swimming. This enabled me the opportunity to volunteer on poolside at the London 2012 Olympics swimming.

CONTACT US

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OVERVIEW

I graduated from Loughborough University with a First Class degree in Mathematics and a Diploma in Professional Studies. This diploma was awarded for completing a year in industry before entering my final year. It was an opportunity to develop transferable skills that university may not provide and gain a better understanding of the real working world. It gave me experience in a variety of roles including finance, quality, website development and marketing, within these roles I undertook various analysis projects mainly using excel.

My mathematical studies included modules such as 'Medical Statistics' and 'Computer Applications in Mathematics', which introduced me to coding using programmes such as R Studio and LaTeX. This modern use of mathematics stood out to me over the more theoretical subjects due to their real-life applications. For example, in medical statistics I utilised R Studio to design more accurate medical drug trials. These outlined the parameters the trial needed to meet to produce more reliable findings – i.e. varying the number of test subjects, significance levels and power.

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.

BUSINESS COORDINATOR – BOILER PLAN UK & MILLER GROUNDBREAKING

2015 - 2016

My placement year was spent at two companies - Boiler Plan who offer finance plans for new boiler installations and Miller Groundbreaking a manufacturing company.

Whilst rotating through the two businesses I was responsible for several things. I created process flows for each department at Miller, identifying areas of improvement and communicating those to the department head, working in the finance department I raised invoices, allocated and posted cash and collected debt. At Boiler Plan, I was responsible for the website development and created numerous organic landing pages to increase the flow of visitors to the website through SEO optimisation. I was also involved in social media advertising, mainly Facebook adverts.

EDUCATION

LOUGHBOROUGH UNIVERSITY, 1ST, MATHEMATICS WITH A DIPLOMA IN PROFESSIONAL STUDIES

2013 - 2017

My final year project (81%) was a report and presentation on the Knapsack Cipher which illustrated how mathematical concepts could be used to code plaintext into ciphertext, enabling secret messages to be sent.

Knapsack Cipher was one of the first Public Key Cryptosystems, that enabled secure communication by introducing the use of 'public keys'. These are still used today to ensure a secure network. The security of The Knapsack Cipher was essentially due to the infeasible amount of time that would be needed to solve the decryption. The cipher was cracked when Adi Shamir discovered that the private key, used to decrypt the code, could be found using modular arithmetic.

Notable modules and marks include:

Vibrations & Waves – 95%
 Mathematical Biology – 80%
 Medical statistics – 78%

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