

OVERVIEW

It was in Nottingham that I was exposed to the many uses mathematics possesses in real world problems and how often it works in parallel and in conjunction with interesting topics. I am very conscious of the environment and I believe maths and Big Data have the capacity to improve global problems like global warming or financial crises by providing small solutions to big problems. It was the ability to make a real change using a subject I am passionate about, as well as further developing technical skills, which led me to a career in analytics and Big Data in particular.

After graduating, I worked within a small consultancy team focused on finding structural and financial problems within the company using VBA. I particularly enjoyed the analysis and seeing the application of my work.

WORK

KUBRICK GROUP - BIG DATA ENGINEER

[The Guardian](#)

I worked alongside multiple teams delivering results in form of dashboards and presentations and used a combination of SQL, Excel and Python to complete medium-length projects.

Kubrick Group

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.

VOLUNTEER

[March 2015 – April 2016](#)

Land-Water Bolivia 08/15-10/15: Systematic planning of a water project in rural Bolivia.

PETER CHARLES SOLUTIONS

[August 2014 – March 2015](#)

I worked on behalf of senior consultants, assisting them by developing sophisticated Excel spreadsheets for modelling cash flows and other business related forecasts.

EDUCATION

BSC MATHEMATICS, 2:1, University of Nottingham, 2011 – 2014

Notable modules: Coding and Cryptography – 90%
Analytical and Computational Foundations – 75%
Further Number Theory – 67%

ADDITIONAL TECHNOLOGY SKILLS: MATLAB and Mathematica

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

NICHOLAS CARPENTER

Big Data Engineer

ABOUT ME

I am a tri-lingual maths graduate with a desire to exhaust Big Data's capabilities in a professional environment.

Data analytics impresses me with its power to assess, extrapolate and underpin arguments for large amounts of information.

My inquisitive nature and interest in advanced analytics has resulted in home learning of VBA and Python.

I look forward to bringing a level-headed approach to a fast paced industry.

Whilst at university I had close ties to the Poker Society, finishing third in the league. The game taught me a lot about piecing together a story, allowed me to develop my patience and utilise probability and game theory.

CONTACT US

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