

OVERVIEW

I have recently graduated with a 1st Class Master's degree in Physics and Astro-Physics. During my studies I attained a number of skills such as advance mathematics, computing and strong analytical abilities. In my project work I utilised mathematics and computing to estimate the expansion rate of the universe. I used a least squares fit statistical method in conjunction with C programming to obtain the rate with errors. I also modelled a double pendulum on C programming to explore non-linear dynamics and chaos theory, in layman's terms, 'the butterfly effect'. I am a highly numerical individual and enjoy learning new mathematics, computing and their applications. Outside of university I self-taught myself Mathematica, C++ and LaTeX.

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.

OFFICE ASSISTANT, UNIVERSITY HEALTH CENTRE

September 2013 – October 2015

Part time role to assist office staff in duties and represent the health centre at events so as to provide information of services available.

ANGLIAN HOME IMPROVEMENTS

June 2014 – September 2014

Door to door marketing - this purely commission based role lead to enhanced communication skills.

EDUCATION

MSCI (HONS) PHYSICS AND ASTRO-PHYSICS: FIRST CLASS DEGREE

Queen's University of Belfast 2012 – 2016

42% of all modules undertaken where achieved with 80% or higher.

Masters thesis: 'Modelling Plasma Expansion in Space and in the Laboratory: The Role of Energetic Particles'. Self-conducted project partaking programming, nonlinear analytical techniques, demanding research and study of challenging texts. Result: First.

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



RAHUL PATEL

Big Data Engineer

ABOUT ME

To be able to predict future situations using data from past occurrences fascinates me. I have a keen interest in investigating the use of machine learning with Big Data and how it can be utilised to produce more accurate models and identify patterns i.e. in the financial industry to predict market changes.

Today's applications of Big Data have already aspired new frontiers in the field and I am excited to be part of the group that defines what tomorrow will hold.

Key to my degree was to be able to ask the right questions which is synonymous in the Big Data field and is why I was drawn to a role in the area.

In my free time, I train as (kick)boxer, which has taught me many skills such as perseverance and dedication. I volunteered at a local Boxing Club, that was a sports charity in one of Northern Ireland's most deprived areas, to help the community through sport.

CONTACT US

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