

OVERVIEW

I recently completed a Bachelor's Degree in Physics from King's College London. I chose to study Physics to satisfy my interest and curiosity when applying data to real life situations.

During my undergraduate degree, I completed many laboratory modules which required the acquisition and analysis of a large set of data. For my third-year project, I successfully designed and built a macroscale, instructional model of an AFM (atomic force microscope). This required me to design, build and programme a CNC (computer numerical control) machine, work with lasers and using formulae construct a 3D image of a sample in Excel.

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.

SENIOR BROKER FUNDER – SANTANDER CONSUMER FINANCE

December 2014 – September 2015

I gained experience in funding new applications in finance and underwriting. Ensured adherence to company procedures and underwriting conditions, then identified, investigated and mediated any fraudulent applications. Liaised with brokers, field based staff and underwriters regarding funding disputes.

EDUCATION

BSC PHYSICS 2:2, King's College London

September 2011 – August 2016

ADDITIONAL TECHNOLOGY SKILLS:

I have completed a module in C++ during my undergraduate degree

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



SUNDEEP SARAI

Big Data Engineer

ABOUT ME

Being one the few women who study Physics, it is very important for me to set an example, and be a role model to the next generation of young women who are in, or are looking to get into STEM. I am always there to help friends and family in maths or physics. I tutored a family friend during her GCSEs and helped motivate and encourage her during her studies. I am now looking forward to taking my passion to the next level with Kubrick's Data Inc.lusive.

I am diligent, adaptable and thrive in demanding situations. From the age of 16, I have continuously worked whilst studying for my A levels and going through university to financially support my education. This includes taking a year off to work at Santander Consumer Finance.

CONTACT US

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