



AMA-APRIL FRIMPONG

Big Data Engineer

ABOUT ME

My passion for data stems from using analytical techniques and predicting mechanisms during my masters. I followed this up by attending many meet-ups to find out more about real world data application and meet industry professionals. This included Data Inc. lusive, one of Kubrick's initiatives to bring more women into data through awareness and equal opportunity. This event showed me that my transferable skills can be used to penetrate the data industry.

Having always been interested in social welfare and access to education, I involve myself heavily with programmes for disadvantaged young people. Working as an ambassador for my university, I facilitated teaching and supervised groups by day and was a warden by night. This taught me how to connect with people from different backgrounds, gave me the ability to speak effectively to children as well as heads of departments.

CONTACT US

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OVERVIEW

In 2016, I graduated with a masters in Chemistry from the University of Sussex. My masters dissertation focused on Quantum Dots which are used in LED TVs and solar panels. I synthesised and experimented with different chemical combinations to optimise the length of time the compounds could illuminate using techniques such as X-Ray Diffraction, Fluorescent Spectroscopy and Transmission Electron Microscopy. These experiments yielded data that I refined, processed and presented to other scientists in the field both internal and external to my university. During this project, I researched and predicted a model for how the illumination mechanism worked based on historic findings and my observations.

Post study, I decided to give something back to my local area and utilise my analytical skills in a teaching environment and joined Explore Learning, a tuition centre as assistant director. I found this to be a rewarding experience where I was able to improve my communication and analytical skills by organising and allocating courses to children based on strengths and weaknesses. Hence, this prepared me for how to conduct myself in the professional world. As I particularly enjoyed the analytical and modelling aspects of my degree, I wanted to transition into an industry that allowed me to use these skills to create innovative ways to solve problems.

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.

ASSISTANT DIRECTOR – EXPLORE LEARNING, LONDON

August 2016 - June 2017

I worked as an Assistant Director for Explore Learning, a tuition centre focussed on providing additional help in maths and English for children aged 4- 15. In this managerial role, I undertook the day-to-day running of the centre, sales and marketing, customer services and teaching. I drove performance to maximise the impact our services had on the customer's experience, such as looking at the child's progress over time and factoring in circumstantial changes in school and at home. With this information, I intervened and advised parents on the best educational options depending on the needs of their child. Furthermore, I frequently liaised with schools and organisations to promote accessible tuition for all children, by running workshops and information evenings.

(SENIOR) RESIDENTIAL ADVISOR – UNIVERISTY OF SUSSEX

September 2014 - June 2016

At university, I was residential advisor for one year providing information on accommodation and conflict resolution to first year university students. I was then promoted to lead a team of 6 advisors and ensured that they had the guidance needed to tackle welfare issues in their designated areas. In addition to this, I conducted and organised team meetings to understand the progress of ongoing situations as well as to ensure team goals were met. This enhanced my management skills and my ability to liaise with everyone from residents to the Head of Campus and Residential Support.

EDUCATION

UNIVERSITY OF SUSSEX, MCHM (HONS) CHEMISTRY, 2:1

September 2012 - June 2016

Modules included:

Maths and Data Analysis for Chemists, Computational Chemistry, Symmetry and Simulation, Instrumental Analysis.

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