



CRAIG BUNYAN

Big Data Engineer

ABOUT ME

From a young age, I have always been very mathematically minded and was chosen to complete the UK Maths Trust maths challenge every year during primary and secondary school.

At university, I covered cash flows, interest rates and investment in financial maths. I found applying mathematical methods to real-life situations extremely interesting. This was enhanced by the impact that Brexit had on the UK market. It was interesting to be able to follow the effect that it had whilst learning the content and understand how it was redefining the marketplace as we know it.

Outside work, I enjoy participating in sports. In 2008, I was the national judo champion and competed internationally for Britain. I continued to compete until 2010, where I then started to focus on fitness training as well as team based sports such as football.

CONTACT US

Kubrick Group

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OVERVIEW

I have recently graduated from the University of Sussex with a first-class bachelor's degree in mathematics. During a Probability and Statistics module, my interest in coding sparked whilst using MATLAB when working on a project; where a team and I analysed if the polls for the 2015 general elections were a strong representation of the results. I enjoyed manipulating the data and comparing hypotheses to reach surprising outcomes. Whereas Cryptography and Coding Theory highlighted the whole election process were in fact a poor representation of how the public voted.

Other modules I thoroughly enjoyed and exceeded at were multiple analysis modules, Cryptography and Coding Theory. The analysis modules consisted of evaluating the behaviour of series, sequences and functions. Whereas Cryptography and Coding Theory highlighted the structure of security methods and coding as a whole.

The opportunity to utilise my academic experience in a practical setting was exactly the type of chance I was looking for, this is when I found Kubrick and the rest they say is history.

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.

COSTA COFFEE, HALSTEAD

March 2013 - September 2017

I provided customer service and maintained the café at an extremely high standard. Towards the end of my time at Costa I took on an assistant supervisory role and was responsible for the team, managing money and in charge of opening and closing the premises.

JLT, LONDON

July 2017 (2 weeks)

I completed a 2-week programme within the energy specialist division. The programme simulated the process of dealing with a business tender. I was given the task of analysing the price of premiums and creating packages to offer to the client.

EDUCATION

BSc MATHEMATICS (HONS), UNIVERSITY OF SUSSEX - FIRST CLASS

September 2014 - Jun 2017

Key Modules:

Coding Theory - 98%
 Cryptography - 83%
 Financial Mathematics - 85%
 Complex Analysis - 80%

In 2016, I spent 2 months participating in a university funded internship program in China. The programme included mandarin lessons and working as a marketing promotion assistant. Responsibilities included editing the company website to appeal to a western demographic and posting social media content.

At university I was involved in two programs: Peer Assessed Learning (PAL) and Outreach. PAL was formed out of the best year one students who, in year two, worked alongside lecturers to assist other students in completing their assignments.

Outreach involved visiting primary and secondary schools to speak about STEM degrees and spark their interest in studying the subjects.

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