



LEWIS ALLSOP

Big Data Engineer

ABOUT ME

"The only place success comes before work is in the Dictionary" – Vince Lombardi.

The principle behind this quote drove me to enter and win the Cardiff University Enterprise award with a business idea involving the mixing and selling of tea through different vendors. Business enterprise has always been a keen interest of mine and my interest in tea and mixing Asian tea flavours brought me to research the field and enter the programme alongside my studies. Whilst researching and refining my business concept, I realised the power of information and the impact it has on business development and decisions.

Kautex Textron further allowed me to explore commercial data with real-time analytics in a fast-paced production environment. It was my responsibility to quickly rectify current or future problems that the data was telling me. These valuable experiences in industry, academia and extra-curricular work helped me decide to begin a career in data & technology and I am excited by how this work suits my naturally analytical and curious mind.

In my personal time I love watching sports, specifically rugby union and have been a supporter of my hometown Leicester Tigers from an early age. As well as this, I have recently began getting into Jazz music and attended the world Jazz festival last summer in Spain.

CONTACT US

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OVERVIEW

I graduated with a First-Class degree in Medical Engineering from Cardiff University in 2016. In my final year at University, I took on a project where the purpose was to identify whether the risk of player injury could be accurately predicted in professional football. I used historical and current data of functional movement screens (FMS) (range of motion, joint flexibility, and muscle strength) and applied methods such as statistical hypothesis testing and diagnostic testing on SPSS software. I deduced that no relationship between injury and the results of a FMS existed. This was displayed clearly via a receiver operator curve I coded using SPSS, a methodology currently being explored in machine learning.

After graduation, I chose to spend the summer travelling through Spain before joining the German automotive supplier Kautex Textron as engineer. A year later, after having gained work experience, I made the decision to move into a more analytical and business motivated role that would enable me to develop and exercise hardcoded technical skills with varying technologies.

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.

ENGINEER - KAUTEX TEXTRON

September 2016 - August 2017

I was part of Kautex Textron's graduate scheme which allowed me to gain engineering experience in different departments:

Advanced Manufacturing:

- I was part of a team responsible for developing technical quotes to win new contracts supplying fuel/hybrid tank systems
- I communicated with suppliers globally to negotiate deadlines and specifications

Production & Quality:

- I was a team leader responsible for 15 people managing and achieving manufacturing targets, and smooth running of supply chain
- I was involved in regular Kaizen events resulting in the implementation of new processes reducing cycle times, waste and increased production output.

Software Skills Gained:

SAP, QlikView & AutoCAD

Other Skills:

A3 Thinking, Kaizen, Kanban, Lean Principles

EDUCATION

FIRST CLASS DEGREE, BENG MEDICAL ENGINEERING, CARDIFF UNIVERSITY

2012 - 2016

Attaining a first class degree is by far my proudest academic achievement, averaging a first across multiple disciplines including; physics, mathematics, electronics, design and business.

Software Skills Gained:

Matlab, SolidWorks, Patran

Final Year Modules:

Project (74%), Business Management (87%), Electronic Engineering (82%), Biomaterials & Tissue Engineering (80%), Medical Electronics (79%), Solid Mechanics (74%), Clinical Engineering (71%), Fluid Mechanics (68%), Engineering Applications (67%) & Biomechanics 2 (60%)

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