

OVERVIEW

I graduated from the University of Nottingham with a MSc in Computer Science in 2016. During my MSc I covered the fundamentals of data structures, algorithms and programming and then went on to apply these ideas in machine learning and data modeling. I worked on projects involving writing machine learning algorithms in MATLAB, data modelling & analysis projects using R and WEKA and a coding project in Python.

After I finished university I started working for Concentra Analytics for 6 months where I used R to build a sequencer prototype to plan production based on the product wheel technique.

WORK

DATA ENGINEER – KUBRICK GROUP, LONDON

March 2017 – present

In addition to intensive learning, whilst at Kubrick I have worked in agile teams on many client projects deepening the skills I have learned. The Data projects which I have worked on have proven my skills in efficiently engineering very large datasets across a cluster. This has enabled me to deepen my analytical skills, both through data visualisation in Tableau and Plot.ly and through predictive modelling using the Python SKLearn module.

Examples of value I have added to businesses include insight derived from real time streamed social media analytics as well as predictive insights extracted from client side data warehouses.

CONCENTRA ANALYTICS

October 2016 – March 2017

Developed algorithms and modeled solutions for Concentra Analytics' SupplyVue application.

EDUCATION

MSC COMPUTER SCIENCE, University of Nottingham

2014 – 2016

Modules: Programming, data structures and algorithms, operations research, machine learning, data modelling and analysis.

Thesis: : I applied a hyper-heuristic to the one-dimensional bin packing problem using a Monte Carlo method. My solution was to put a value on and choose the best heuristic to pack each item when it is allocated.

Programming languages: R, Python, Java, Matlab

BSC (HONS) MATHEMATICAL PHYSICS, University of Nottingham

2011 – 2014

Modules included: Quantum mechanics, Relativity, thermodynamics, Linear algebra and statistical modelling.

KEY SKILLS

I am experienced and qualified in the following technologies and disciplines:

Data Skills:	SQL, Python, Pandas and SciPy, SKLearn, Tableau, Plot.ly, Hadoop, Apache Spark & MongoDB
Security Skills:	Git, Security and Kerberos, SSH & Linux, GDPR
Data Warehousing:	Data Warehousing in T-SQL, Hive & Kimball methodology
SDLC:	Agile, problem solving
Documentation:	LaTeX and Markdown
Soft Skills:	Presentation skills
Specialisms trained in:	Retail, AML, Credit Risk
Certifications:	Cloudera Certified Associate (CCA) Hadoop & Spark Developer



RORY BIRTWISTLE

Data Engineer

ABOUT ME

My interest in physics was sparked very early on after reading a book by Richard Feynman – an American theoretical physicist. Upon leaving school with an A* in maths and an interest in how the world works I decided to study mathematical physics in University of Nottingham.

In my final year project, I was introduced to programming whilst modeling a physics problem which furthered my growing interest in computer science and prompted me to do a masters degree in the field.

During my masters, I particularly enjoyed using computer science skills in relation to real world applications and solving problems. In my thesis, I tackled a problem which has no exact solution and wrote an algorithm to produce a solution in a realistic timescale.

For a large part of my life I have been playing squash. I have represented Ireland at the World Junior Championships, European Junior Championships and played on professional squash tours all over the world. The sport has taught me many things which I have translated into many parts of my life. I have found confidence, self-belief, perseverance and learned to adapt to a competitive environment where hard work is demanded at all times.

CONTACT US

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