TOBY GASKELL

PROFILE

I am a young professional with a true passion for data and technology. I am confident, dependable and motivated - as well as eager to be in an environment where I am able to learn from others and contribute ideas. I specialise in ensuring engineering is completed efficiently to a high quality following industry standards. I pride myself on my collaboration skills including the ability to communicate effectively and understand requirements from both technical and non technical stakeholders. I relish the idea of working across a wide range of tools and technologies - as I have a thirst for all knowledge, especially widening my technical abilities. I am a competent programmer primarily in python with experience using other languages such as Java and R. I am driven, hardworking and excited by data engineering.

EXPERIENCE

SECURITY DATA ENGINEER, SCHRODERS, LONDON- APR 2020 - PRESENT

- Part of the team responsible for designing and implementing the migration of the security data strategy from the on prem solution to the cloud - engineering a vast number of large machine generated security data sources which can range up to a billion rows a day. Had to consider solutions to batched, micro batched as well as streamed data sets from a variety of different sources. As well as complex unstructured data sets which required custom solutions.
- Lead engineer on building two end to end security metrics solutions. One mapping on to the industry leading MITRE ATT&CK framework and the other used to monitor the companies risk position. This work included designing and building the back ends which consisted of two normalised databases, two full python engines used to constantly update the front end visualisations using data from a vast number of different data sources including both batched and streamed data. As well as working with the stakeholders to design the front end visualisations.
- Built a predictive model which used ML, to identify the likelihood of a reported emails being a phishing email. This used a number of different natural language processes and internally built features to get results showing accuracy and precision scores of 97% and 98% respectively.

DATA ENGINEER, KUBRICK, LONDON - JAN 2020 - APR 2020

- Trained for 4 months where I was taught and assessed on technologies such as SQL, Python, ML, Tableau and Big Data. This programme gave me the skills and technical understanding needed to quickly become an excellent data engineer.

EDUCATION

UNIVERSITY OF YORK, – MATHS (2:1) - 2018
XAVERIAN COLLEGE, – MATHS (A*), ECONOMICS (A), PE (B) - 2015
LONGDENDALE HIGH SCHOOL, – 3 (A*), 7 (A) - 2013

During my degree I specialised in pure Mathematics - studying cryptography in 3rd year and writing my dissertation on Knot Theory were two of my personal highlights. Whilst studying economics at A-Level I was a member of a small team of students who were regional winners of the bank of England challenge.

SKILLS

I thrive in high pressure environments being able to solve problems using data engineering and analytics in any situation. Other technologies I am familiar with include; Snowflake, AWS, DevOps, Hive, Natural Language Processing, Tableau, Alteryx, Docker, Mongo DB. Apache NiFi, HTML and Spark.

PERSONAL

I have played rugby my whole life, playing at a consistently high level. In 2014 I was the youngest player in Nat 2 at the age of 17. I also played at academy level for Leicester tigers and represented numerous club and county sides including York university 1st team and Cheshire (captain). I am also a keen traveller - after spending time travelling both the US and Asia - I fully appreciate the importance of experiencing new and different cultures. As well as building personal connections all over the world.