Timothy Youell – Senior Data Engineer

Timothy.Youell@Outlook.com | +61431993958 | Sydney, NSW
www.linkedin.com/in/tim-youell-616731a6

Key Skills

- Python, R & SQL
- Iaas (Terraform)
- Machine Learning
- Data Engineering
- Cloud Tech (GCP)
- Software Development

Summary

A self-motivated senior data consultant with over four years of industry experience, specialising in the development and deployment of end to end data-driven products. I have a master's degree in Computer Science and strong technical analytical skills. Seeking to accelerate the future of businesses through next-gen high performance computing applications and cutting-edge analytics.

Relevant Work Experience

July 2022 - Present

Servian
Data Consultant
- Client based work with projects ranging from Google Cloud Project machine learning operations to data engineering pipeline builds and dashboard creation.
- Collaboration with key client stakeholders to develop processes and systems that meet their required criteria.
- Analysis of structured and unstructured datasets using Python and SQL to identify trends and predictions.
- Courses in Terraform, GCP, SQL, Machine Learning and Scrum completed.

Aug 2021 - July 2022

Allegis Group/Westpac Group
Senior Data Engineer
Employed by Allegis Group as a Senior Data Engineer, contracted out to Westpac Group Bank to aid in the Group Customer Remediation Transformation Project. The build of processes and implementing business rules through Python and SQL in Dataiku to meet system designs and requirements for credit card and mortgage customer remediations. Maintaining and testing critical documentation in the form of data entity relationship diagrams to ensure application performs to specification.

Sept 2018 - July 2021

Aviva Insurance
Senior Data Scientist
Involved in several projects to drive forward data led innovation to improve the experience of insurance claims for customers and key stakeholders. My achievements were recognised with a promotion from data scientist to senior data scientist. With heritage dating back to 1696, Aviva is one of the leading insurance companies in the UK and is consistently recognised for its analytical practices.

Achievements:
- Led a project working with the Operations Team to build and productionise four APIs to automate Aviva's end-to-end online claim journey. A claimant's cover, liability, hire, and fraud requirements are now all checked automatically, giving responses to Aviva's claim handling system. The APIs were developed in Python (numpy, pandas, requests) in a Dataiku software environment hosted through an Amazon Web Services (AWS) cloud.
- Development of predictive models using machine learning techniques.
- Built a system to obtain the repair cost of vehicles at first notification of loss.

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Education and Qualifications

2017 - 2018   **University of East Anglia**
MSc Knowledge Discovery and Datamining
Distinction
- Gained theoretical and practical experience in data science and machine learning, applying decision trees, random forest and regression models to projects.
 - Excelled in Database Manipulation coursework, a module focused around database architecture and relational databases using SQL code.
 - Programmed my own music player graphical user interface using Java code. The finished product could make playlists, shuffle songs and view album artwork.
 - Relished learning the R language in the Applied Statistics module. The module taught me the importance of functions within coding languages such as R and Python as well as the benefit of statistical methods within data analytics.
 - Concluded the year by carrying out a research project on the Modelling of Option Pricing. The project involved building a Black-Scholes option calculator graphical user interface in Java and comparing its outputs to real-time option prices to assess the strength of the model as a pricing tool.

2014 - 2017   **University of East Anglia**
BSc Chemistry
Upper Second-Class Honours
- Improved my analytical skills with experiments such as quantifying the amount of fluoride in a variety of toothpastes and of caffeine in several coffee brands. As well as developing some introductory analysis skills, the module began to give me an understanding of basic modelling.

2012 - 2014   **Long Road Sixth Form College**
3 A Levels: Chemistry A, Mathematics A, Design & Technology B

Interests

- I am committed to playing regularly in a local football (soccer) league and have captained teams to county competitions in the past. Enjoyed competing for both rugby and rowing teams while studying at University.

- After recording my individual fitness data while studying at university including heart rates and times, I took on the role of analysing the rowing team's data. This included monitoring both the speed of the boats to ensure they were improving constantly and individuals' heart rates, making sure they were not too fatigued or coming down with an illness. Both my own and the team's data were recorded and visualised using Microsoft Excel.

- Applying my data analytics skills, I enjoy learning new and emerging data science techniques, including recently building an algorithm to scrape EPL data and predict football player performances.

References

Available on request