

Tim Quinn – Data Scientist | Data Engineer

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Clearances: AGSVA NV1 (Jan 2029), ACIC (2020), Police (Apr 2021)

Referees: Will provide upon request

Qualification: Master of Statistics, Australian National University

Qualification: Bachelor of Commerce (Finance, Economics), University of Canberra

Course: Executive Leadership Program, Melbourne Business School

Synopsis I am a proven data scientist and data engineer with 20 years' data and technology experience delivering projects in government and private sectors. I am an experienced developer, leader, and advisor.

I have worked extensively on small and big data systems including cloud-hosted data pipelines cloud migration projects. I have integrated large multi-source data sets employed for statistical, algorithmic, data mining, and including a broad set of machine learning processes. I am a forecasting and simulation specialist and as both team leader and SME, I have rebuilt and maintained databases and modernised legacy data storage environments. I have delivered data strategies, visualisation tools; I understand risk, business process, and policy.

At a glance SQL/NoSQL, R, Python, SAS, Azure, AWS, Hadoop, Visual Studio, Technology & Tools Visio/Lucid/Mural, DevOps/Git, Power BI, Tableau, Alteryx, Qlik, Office

At a glance Data science, Data engineering, DBA

- Statistical and machine learning including experimental analysis
- Natural language processing/text analysis
- Data extraction, cleaning, manipulation, data mining and analysis
- Economic and demographic analysis and simulation
- On-prem / cloud migration/DBA, data modelling, system design
- Data architecture, cloud solutions, data and digital strategy
- Cyber risk evaluation and advisory
- Data visualisation, business process, audit, and assurance
- Enterprise data evaluation, design and refactor, CI-CD, and advisory
- Agile project management, client relationship, communications

At a glance... Recent employment and contracts

- Senior Data Scientist | Data Engineer, Department of Agriculture
- Consulting Data Scientist, IP Australia
- Senior SAS Analyst, National Health Funding Body
- Senior Data Scientist, Trust and Risk, PwC
- Senior Data Scientist, Deloitte Consulting
- Lead Data Scientist | Deputy Chief Economist, Austrade
- Manager, Research and Statistics, RET/Austrade
- Principal Forecasting Analyst, Dept. Resources, Energy, Tourism

Relevant experience

April 2021 – current **Senior Data Scientist | Data Engineer, Department of Agriculture**

Synopsis: As Data Scientist and engineer I work closely with program SMEs and the ITS Division in the development of data models and tools. This includes data extraction, pipelines, analysis, cloud migration, APIs, and visualisations.

Responsibilities:

- Cloud-based data modelling, engineering, and hosting (T-SQL, Azure, Python)
- Migration, DBA, data extraction cleaning, manipulation (Azure, T-SQL, Python)
- Machine learning – econometric, unsupervised (Python, R)
- Data mining, visualisation, and predictive analysis (T-SQL, Python, R, Power BI)
- End-to-end architecture and pipeline engineering
- API development, design, and business process transformation

January 2021 - April 2021 **Consulting Data Scientist, IP Australia**

Synopsis: As a consulting Data Scientist my brief was to build a resources model derived from data mining and machine learning processes based on the impact of COVID-19 on trademark applications. Data from a range of sources and compiling budget and simulation analyses for the executive.

Responsibilities:

- Data extraction cleaning, manipulation (AWS, Python)
- Data mining and analysis (Python, R)
- Machine learning - econometric and unsupervised (Python)
- Data visualisation (Python, R, Excel)
- Developing project plans, budget, hypotheses
- Advisor to Executive on forward program

September 2020 - March 2021 **Senior SAS Analyst, National Health Funding Body**

Synopsis: Senior data analyst undertaking financial-related data analysis and reporting, cost modelling and managing data for a \$70 billion national health funding program.

Responsibilities:

- Data extraction cleaning, manipulation (T-SQL, SAS)
- Data mining and analysis (SAS, T-SQL, Python)
- Data visualisation (SAS, Python, and Excel)
- Database development and maintenance (T-SQL)
- Machine learning and process modernisation

September 2019 - September 2020 **Senior Data Scientist, PricewaterhouseCoopers**

Synopsis: Senior data scientist and strategic advisor delivering data and technology solutions.

Responsibilities:

- Statistical, algorithmic, data mining, and machine learning analysis
- Risk assurance and advisory via machine learning and statistical analysis
- Data visualisation, public and private sector (Power BI, R, Python, Qlik)
- Data modernisation including data and cyber risk evaluation and advisory
- Data digitisation, robotic process automation, database design and evaluation
- Program manager – client and industry, resources, budget, and finances

May 2018 – September 2019 Senior Data Scientist, Analytics and Cognitive, Deloitte

Synopsis: Senior data scientist, project manager, and technical advisor to government and business clients delivering complex data and analytical-led solutions.

Responsibilities:

- Statistical, algorithmic, data mining, and machine learning processes analysis
- Database maintenance, review, modernisation, advisory
- Data visualisation, public and private sector (Power BI, R, Python, Tableau)
- Data modernisation – FMIS, data and cyber risk evaluation and advisory
- Enterprise data and technology evaluation
- Communications and results delivery
- Program manager – client and industry, resources, budget, and finances

June 2017 – May 2018

Position: Lead Data Scientist and CDO, Data Science and Intelligence (Specialist EL2)
ITS, Austrade

September 2015 – June 2017

Position: Data Scientist (Specialist EL2), Deputy Chief Economist
Office of the Chief Economist, Austrade

February 2015 – September 2015 (SME secondment from Austrade)

Position: Executive Advisor – Data SME (EL2.2)
Bureau of Communications Research, Department of Communications

January 2013 – January 2015 (move due to MoG from Resources, Energy, and Tourism)

January 2007 – December 2012 (move due to Industry, Tourism, and Resources)

Position: Manager (EL2), Department of Resources, Energy, and Tourism