Tim Quinn

Data scientist and engineer with almost 20 years' data and technology experience delivering projects in government and private sectors.
I am a proven developer, project manager, and advisor.

Contact:	m: 0421 086 333 e: timquinn000@gmail.com
Clearances:	Negative Vetting 1 (AGSVA , Jan 2029), ACIC, Police (various)
Referees:	Upon request

Summary of qualifications	Master of Applied Statistics, Australian National University Bachelor of Commerce (Finance, Economics), University of Canberra Leadership Program, Melbourne Business School (Mt Eliza)
Synopsis	I have worked extensively on a broad range of economic and social data, designing, implementing, and scaling locally and cloud-hosted analytical solutions. I am an expert in developing and operating forecasting and simulation models, OCR and natural language, automation and machine learning, and integrating large multi-source data sets. I have evaluated and modernised data systems into cloud as well as developing and implementing data strategies.
Sectoral expertise	Agriculture, National Security, Health, Education, Resources, Trade and Investment, Transport, Communications, Government and Policy, Assurance and Risk, cloud analytics

At a glance… Technology & Tools	SQL/MySQL, R/RStudio, Python, SAS, AWS, Azure, Teradata, Alteryx, UiPath, Hadoop, Spark, Tableau, Power BI, Qlik, Lucid, MS Office
At a glance… Data science and engineering	• Data extraction, cleaning, manipulation, data mining and analysis • Statistical and machine learning – descriptive and predictive analysis • Natural language processing/text analysis • Economic and demographic analysis and simulation • Data visualisation • Enterprise data evaluation, schema design and transformation • Data transformation, mapping and schema • Data and digital strategy • Data and technology analysis: pricing, budget, risk • Project management, client relationship, analytical communications
At a glance… Relevant employment and contracts	• Data Scientist, Digital Transformation, Department of Agriculture • Consulting Data Scientist, IP Australia • Senior SAS Data Analyst, National Health Funding Body, NHFB • Senior Data Scientist, Trust and Risk, PwC • Senior Data Scientist, Deloitte Consulting • Lead Data Scientist / Deputy CDO, Austrade • Deputy Chief Economist, Austrade • Data SME / Executive Director, Department of Communications • Manager, Research and Statistics, RET/Austrade • Principal Forecasting Analyst, Dept. Industry

Relevant senior professional and analytical experience

April 2021- ongoing (contract)

Position:	**Data Scientist, Department of Agriculture**
Synopsis:	Data scientist and data engineer modernising the department's data and ICT systems in the Taking Farmer's to Market program.
Responsibilities:	● Data engineering, analytics, mining (SQL, Python, R, Excel) ● Data extraction cleaning, manipulation (Python, SQL via Azure) ● Data modernisation including data schema / process data design (Lucid) ● Cloud engineering and analytics; DevOps / WebOps ● Data visualisation (Power BI, Python, Excel)

January 2021- May 2021 (limited term consulting contract)

Position:	**Consulting Data Scientist, IP Australia**
Synopsis:	Consulting data scientist and economic analyst evaluating the impact of COVID-19 on IP applications during the pandemic.
Responsibilities:	● Data engineering using IP Australia data (AWS suite, Python, SQL) ● Data mining and analysis (Python, R) ● Data visualisation (Power BI, Python) ● Process modernisation and reporting (Word, Lucid)

October 2020- February 2021 (limited term contract)

Position:	**Senior SAS Analyst, National Health Funding Body**
Synopsis:	Senior data analyst undertaking data analysis and assurance for Australia's public health funding program. Reports, analysis, cost modelling and managing data.
Responsibilities:	● Data extraction cleaning, manipulation (SQL, SAS) ● Data mining and analysis (Teradata/SQL, SAS, TidyR) ● Data visualisation (SAS VA, Excel) ● Database development and maintenance (Teradata, SQL) ● Process modernisation (SAS, Teradata)

September 2019 - September 2020

Position:	**Senior Data Scientist, Trust and Risk Analytics, PricewaterhouseCoopers**
Synopsis:	Senior data scientist, project manager, and technical advisor to government and business delivering complex data and analytical-led solutions.
Responsibilities:	● Data analysis using statistical, algorithmic, data mining, and machine learning ● Business intelligence developer (Power BI / Qlik / R / Python) ● Data modernisation including data and cyber risk evaluation and advisory ● Data digitisation, robotic process automation, database design and evaluation ● Communications and results delivery including resource management

May 2018 – September 2019

Position: **Senior Data Scientist, Senior Manager, 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:
- Data analysis using statistical, algorithmic, data mining, and machine learning
- Database maintenance, review, modernisation, advisory
- Data visualisation for public and private sector (Power BI / Tableau/ R / Python)
- Data modernisation – FMIS, data and cyber risk evaluation and advisory
- Enterprise data and technology evaluation
- Communications and results delivery including resource management

June 2017 – May 2018

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

Synopsis: Austrade's data champion and data science SME. I developed and managed a high-level data science capability including driving the agenda for two key data strategies - data science and digital.

Responsibilities:
- Applied complex analytical techniques to trade and investment data sets
- Delivery of analytical projects for agriculture, education, and business grants
- Database development and maintenance (Excel to SQL Server, R, Python)
- SME for Austrade's data visualisation program – Tableau, Power BI
- Developed and implemented data science strategy and digital strategy
- Data modernisation including data and cyber risk evaluation and advisory

September 2015 – June 2017

Position: **Deputy Chief Economist & Data Scientist (EL2, SESB1 a/g)**
                               Office of the Chief Economist, Australian Trade and Investment Commission

Synopsis: Managed economic analysis with a specialist focus on quantitative analysis targeting trade and investment. I introduced data visualisation and open source tools. I led the transformation of the transfer of core economic, administrative and executive data.

Responsibilities:
- Economic analysis for administrative and program advisory reform
- Lead developer of Austrade's policy simulation (CGE) modelling program
- Senior advisor on services trade and investment data and analysis
- Economic database modernisation and management

February 2015 – September 2015 (6 month SME secondment from Austrade)

Position: **Executive Advisor – Data SME (SESB1 a/g)**
                               Bureau of Communications Research, Department of Communications

Synopsis: Led the design and implementation of an integrated analytical work program.
I led the Department's regulatory reform agenda (on data collection and reporting).

January 2007 – January 2015

Position: **Manager (EL2), Research and Statistics – Department of Resources, Energy, and, Tourism**

Synopsis: Managed the provision of timely and accurate industry analysis, forecasts, economic modelling and advice for policy development, assessment, and broader national economic development. Attended IDCs and managed NPPs for policy and program reform.