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| **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:**  **Clearances:**  **Referees:** | m: 0421 086 333 e: [timquinn000@gmail.com](mailto:timquinn000@gmail.com)  Negative Vetting 1 (AGSVA, Jan 2029), OSA (2019), Police (various)  Upon request |
| **Summary of** | Master of Applied Statistics, Australian National University |
| **qualifications** | Bachelor of Commerce (Finance, Economics), University of Canberra |
|  | Leadership Program, Melbourne Business School (Mt Eliza) |
| SynopsisSectoral expertise | 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 developing and operating forecasting and simulation frameworks, OCR and natural language, and developing and scaling automation and machine learning environments using small and large multi-sourced data. I have evaluated and modernised data systems including implementing cloud data systems and strategies.  Cloud analytics, Agriculture, National Security, Health, Education, Resources, Trade and Investment, Transport, Communications, Policy and program costing, Assurance and Risk |
| At a glance…Technology & Tools | SQL/MySQL, R/RStudio, Python, SAS, Azure, AWS, GitHub, UiPath, Hadoop, Spark, Tableau, Power BI, Qlik, Alteryx, 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 * CI / CO, DevOps * Data visualisation * Data governance, mapping, and schema design * Natural language processing/text analysis * Economic and demographic analysis and simulation * Enterprise data evaluation, schema design and transformation * 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 * Senior Data Scientist, Trust and Risk, PwC * Senior Data Scientist, Deloitte Consulting * Lead Data Scientist / Deputy Chief Economist, Austrade * Data SME / Executive Director, Department of Communications * Manager, Research and Statistics, RET/Austrade * Principal Forecasting Analyst, Dept. Industry / Tourism Australia |

**Relevant senior professional and analytical experience**

***April 2021- ongoing (contract)***

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| **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, Azure) * Azure Data Factory for program’s data ingestion (APIs) * Data modernisation including data schema / process data design * Cloud engineering and analytics; DevOps / WebOps * Data visualisation (Power BI, Python, Excel) |

***January 2021- May 2021 (limited term consulting contract)***

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| **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)***

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| **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***

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| **Position:** | **Senior Data Scientist, Trust and Risk Analytics, PwC** |
| **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***

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| **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***

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| **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)***

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| **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). |