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| Tim Quinn – Data Scientist | Data Engineer | |
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| **Contact:**  **Clearances:**  **Referees:** | m: 0421 086 333 e: [timquinn000@gmail.com](mailto:timquinn000@gmail.com)  Negative Vetting 1 (AGSVA Jan 2029), ACIC (2020), Police (Apr 2021)  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 glanceTechnology & Tools | SQL, R, Python, NoSQL, SAS, Azure, AWS, Hadoop, Visual Studio, 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**

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| **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 (SQL, Azure, Python) * Migration, DBA, data extraction cleaning, manipulation (Azure, SQL, Python) * Machine learning – econometric, unsupervised (Python, R) * Data mining, visualisation, and predictive analysis (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**

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| **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 * Advising to Executive |

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

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| **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**

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| **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**

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| **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***

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

***February 2015 – September 2015 (SME secondment from Austrade)***

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| 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)***

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

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