|  |  |
| --- | --- |
| Tim Quinn – Data Scientist | Data Engineer | |
|  |  |
| **Contact:**  **Clearances:**  **Referees:** | m: 0421 086 333 e: [timquinn000@gmail.com](mailto:timquinn000@gmail.com)  AGSVA NV1 (valid to Jan 2029), ACIC (2020), Police (Apr 2021)  Will provide upon request |
| **Qualification:** | Master of Applied Statistics, Australian National University |
| **Qualification:** | Bachelor of Commerce (Finance, Economics), University of Canberra |
| **Course:** | Executive Leadership Program, Melbourne Business School (Mt Eliza) |
| Synopsis | I am a data scientist and engineer with 20 years’ data and technology experience delivering projects in government and private sectors. I am a proven developer, leader, and advisor.  I have worked extensively on small and big data, cloud-hosted data pipelines, developed and maintained visualisation tools, developed industry forecasting and simulation models, business process, policy costing tools, natural language frameworks, and integrating large multi-source data sets. I have evaluated and modernised legacy FMIS and data warehouses as well as delivered data strategies, many in CI/CD environments. |
| At a glance…Technology & Tools | SQL, R, Python, SAS, Power BI, Tableau, Alteryx, Ui, Qlik, MS Office  AWS, Azure, Hadoop, GitHub/Git |
| **At a glance…**  Data science and engineering | * Data extraction, cleaning, manipulation, data mining and analysis * Data architecture and cloud solutions incl data and digital strategy * Statistical and machine learning – descriptive and predictive analysis * Data visualisation * CI/CD * Natural language processing/text analysis * Economic and demographic analysis and simulation * Business process * Enterprise data evaluation, design, and advisory * Project management, client relationship, analytical 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 CDO| 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 am responsible for providing technical data modelling and transformation solutions for the *Taking Farmers To Market* Program. I work closely with business SMEs and the ITS Division specialists. |
| **Responsibilities:** | * Cloud-based data modelling, engineering, and hosting (T-SQL, Azure, Python) * Data extraction cleaning, manipulation (T-SQL, Python) * End-to-end architecture and pipeline engineering * Business process analysis and program return modelling (T-SQL, R) * Data mining and predictive analysis (T-SQL, Python, R) * API development, design, and business process transformation * Machine learning – econometric, unsupervised (Python, R) |

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

|  |  |
| --- | --- |
| **Synopsis:** | As a consulting Data Scientist undertaking data analysis of the impact of COVID-19 on trademark applications. Analysing data from a range of sources and compiling budget and forecasting analyses for the executive. Advisor to Executive on forward program. |
| **Responsibilities:** | * Advisor on future funding requirements * Data extraction cleaning, manipulation (Python) * Data mining and analysis (Python, R) * Data visualisation (Python, R, Excel) * Machine learning - econometric and unsupervised (Python) * Developing project plan, budget, hypotheses |

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

|  |  |
| --- | --- |
| **Synopsis:** | Senior data analyst undertaking data analysis, compiling reports, 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:** | * Data analysis using statistical, algorithmic, data mining, and machine learning * Risk assurance and advisory * 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 * Client communications and results delivery |

***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:** | * Analysis: statistical, algorithmic, data mining, and machine learning processes * 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: | Deputy Chief Economist , Data Scientist (Specialist EL2)  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)***

|  |  |
| --- | --- |
| Position: | Manager (EL2), Austrade |

***January 2007 – December 2012 (move due to MoG)***

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