

BRIEF RESUME - Dr Jamie Gabriel

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SUMMARY

- A highly motivated professional with a broad understanding of data utilisation and data software development and implementation, enterprise data architecture management, and, data engineering and visualisation solutions with extensive experience across multiple sectors;
 - Extensive experience designing and implementing data software solutions utilising advanced analytics/ AI techniques for research and reporting;
 - A collaborative leader committed to actively supporting staff in their personal and professional development and their contributions in the workplace;
 - A highly organised senior manager with the ability to provide high level solution focused technical advice to diverse stakeholders, and work closely and collaboratively in a team environment.
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RECENT PROFESSIONAL EXPERIENCE

Chief Data Officer, Cancer Institute NSW Jan 2022 - Present

Achievements:

- Currently overseeing and delivering on all aspects of the Institute Data Strategy and related projects and ensuring this is aligned with both the organisation's goals and objectives and the wider Future Health initiatives;
- Initiating and embedding a cross-org network of data scientists, data analysts, and IT professionals to efficiently gather, process, and analyse large amounts of complex data, using best practice and scalable tools and techniques to identify trends, patterns, and insights that drive effective decision-making and enhance patient care;
- Building strong relationships with stakeholders across the sector and rolling out a purpose-built research collaboration platform, the first of its kind in NSW;
- Overseeing the architecture uplift across all aspects of the organisation's data infrastructure which has led to multiple gains in the timeframes to deliver high impact analytics, while ensuring staff safety when working with sensitive health data.

Manager, Data & Research Governance, Oct 2017 - Present **Cancer Institute NSW**

Achievements:

- Managed the data and research governance function of the Institute, and introduced multiple solutions related to the tracking of data assets and access, data element lineage, master and reference data, research programs of work, and privacy and security incident / risk management;
- Oversaw the creation of new processes and systems for all aspects of Institute data analytics across Divisions, including the development of standard coding practices to underpin data engineering, analytics, data asset onboarding, code management, and introduced a suite of new practices to support code review, SME collaboration, version control management, and the development of common reference data sets;
- Upgraded all data governance and system architecture compliance documentation and processes, and implemented metrics and reporting to track data custodianship approvals, and integrated all governance processes with version control and implemented data services for monitoring and metrics;
- Developed the Institute Data Strategy and currently managing its implementation across the domains of enterprise architecture, governance, analytics and reporting.

**Manager, Data and Insights, Early
Childhood, Department of Education**

2016 - 2017

Achievements:

- Developed organisational analytics capability and data science and reporting infrastructure from the ground up and established an analytics partnership model to work with other NSW and Australian Agencies for data analytics and data sharing;
- Led an interdisciplinary team that delivered several major software upgrades and system migrations to address legacy application issues, and delivered multiple software solutions (such as funding calculators and automated briefing software);
- Oversaw the design and deployment of software used to calculate and distribute over 200 million in funds into the NSW Early Education sector.

**Lecturer / Various Software Projects
Faculty of Science, Macquarie University**

2009 – 2016

Achievements:

- Delivered numerous learning and teaching analytics software and scientific research projects (i.e. including AI and machine learning driven predictive models to allow real-time learning interventions and curriculum design);
- Oversaw the design and implementation of the SALT project, a high volume workflow engine to allow the tracking and analytics of student waivers, student special consideration and integrated into the main student system, with dedicated data APIs for advanced analytics and transaction level monitoring.

Achievements:

- Delivered a major strategic faculty transformation project, including overseeing the construction of several laboratories for teaching and research which required complex procurement and setup of specialised medical equipment;
- Developed and implemented a custom asset management system to track medical equipment, and all aspects of asset lifecycle and support scheduling;
- Designed a scientific research environment that included major upgrades to network capacity and CPU cluster availability, to support computational chemistry research.

Education:

PhD University Of Technology

Topic Area:

Data Science / Computer Science: (Designing search and retrieval models for domain specific XML)

Other Relevant Skills

- ***Software Engineering and Data Science***
Extensive experience building and deploying data science and machine learning solutions and software applications, extensive technical design skills gained from managing projects involving systems architecture, database design and implementation.
- ***Enterprise Solution Architecture***
Extensive experience in delivering large-scale application ICT infrastructure projects with a data focus, data pipeline projects, cloud deployments, and streaming and elastic data storage migration projects, third party contract management
- ***Technical Skills***
Programming languages: Over 3 decades of software development experience using languages including R, Python, C, objective-C (IOs), C++, Java, Javascript/JSX/Typescript, Angular, React, Haskell, and extensive experience designing and building both desktop and networked applications

Software Frameworks and Database Admin: Extensive experience using Django, React, Docker, D3.js, Angular.js., Ruby on Rails, Shiny, Apache Kafka, Apache Airflow, MongoDB, ElasticDB, Neo4j, PostgreSQL, MySQL, Node, Electron, Apple iOS, RStudio, Jupyter,

Tensorflow, Dash, Mathematica.

OS and Networks: Advanced Linux (all aspects including shell scripting, task management, server configuration and administration etc.); Advanced Windows and MacOS

Referees:

Referees Available on Request.