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April 24, 2024

Dear Sir/Madam,

I am writing to express my keen interest in the Data Engineer position. My unique background in research, data analysis, and leadership, coupled with my passion for applying cutting-edge technologies to real-world challenges, makes me a strong candidate for this role.

#### Bridging the Gap Between Defense and Data Science:

My career path may seem unconventional, but it has equipped me with a powerful skillset. I honed my analytical abilities during a decade-long tenure as a researcher at the Defense Technology Institute's data communication laboratory. There, I focused on big data and machine learning, particularly Convolutional Neural Networks (CNNs) for defense applications. This experience instilled in me a deep understanding of complex data structures and the power of AI to extract valuable insights.

#### Leadership in Data-Driven Decision Making:

While excelling in research, I also cultivated strong leadership skills. As deputy director of data analytics in my previous role, I spearheaded a team of data scientists. We leveraged micro/granular data, alternative data sources (Big Data), and cutting-edge techniques like machine learning, text processing, and network theory to generate richer insights than traditional aggregated data could provide. This experience honed my ability to translate complex data analysis into actionable strategies.

#### Passion for Innovation and a Commitment to Australia:

My dedication to continuous learning led me to pursue a Ph.D. in Information and Engineering with a specialization in virtualization networks. This further solidified my understanding of technological trends. In recognition of my expertise, I was granted an Australian Permanent Residency through the Global Talent Visa program. Currently, I leverage my skills as a Lead Data Engineer at the Cancer Council Victoria, contributing to the fight against cancer through data-driven solutions.

My diverse background, combined with my leadership skills and passion for innovation, makes me confident that I can significantly contribute to your team's success. I am eager to learn more about the specific challenges and opportunities within this role.

Thank you for your time and consideration. I have attached my resume for your review and welcome the opportunity to discuss my qualifications further in an interview.

Sincerely,

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**Jiradett Kertsri, Ph.D.**

*JK: CV*