Vraj Shah

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Hiring Team
Dalhousie University

Subject: Application for **Junior Data Engineer**

Dear Chris Carter,

I am writing to express my interest in the Junior Data Engineer position at Dalhousie University. As a current Master of Applied Computer Science student at Dalhousie University with a strong background in data engineering, cloud computing, and software development, I am excited about the opportunity to contribute to the Office of Planning and Institutional Effectiveness. My previous experience in backend systems, data integration, and cloud solutions positions me well to assist in gathering, cleaning, and reporting institutional data to inform decision-making and strategic planning at Dalhousie.

Throughout my 2 years of professional experience as a Software Engineer at Simform Solutions, I honed my skills in data pipeline design and backend development. I have developed and maintained ETL pipelines to collect, clean, and transform data from various sources, which directly improved processing speed and data accuracy. For example, I designed and deployed ETL pipelines that reduced processing time by 40%, leading to cleaner datasets for reporting. Additionally, I have experience optimizing SQL queries and database schemas in PostgreSQL and MySQL, significantly improving report generation time by 50%. My expertise with cloud platforms like Microsoft Azure also enabled me to migrate legacy applications to a more scalable infrastructure, which resulted in improved performance and reduced system downtimes.

At Dalhousie, I have been exposed to advanced data management techniques and data visualization tools, including Power BI. Through my academic projects, I have automated data aggregation and reporting processes, cutting down manual processing time by 60% and enabling timelier, data-driven decision-making. I am particularly excited about the prospect of supporting the collection, analysis, and reporting of institutional data at Dalhousie University, where I can apply my skills to enhance the quality and consistency of data reporting while collaborating with a team of professionals.

I am confident that my technical skills, attention to detail, and eagerness to learn will allow me to contribute effectively to the Junior Data Engineer role. I would welcome the opportunity to further discuss how my experience aligns with the needs of your team and how I can contribute to the ongoing success of Dalhousie University's strategic goals. Thank you for considering my application.

Sincerely,
Vraj Shah