

DATA ENGINEER SAMPLE

[FIRST NAME LAST NAME]

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April 21, 2025

[First Name Last Name], Data Director

[Company Name]

[Street Address]

[City, State, Zip Code]

Dear [First Name Last Name],

With hands-on experience in data pipeline development, a strong foundation in cloud-based tools, and academic training in machine learning and big data systems, I am excited to apply for the Data Engineer position at ABC Company.

I am currently completing my Master of Science in Data Science at George Washington University, where I have focused on building scalable data infrastructure and gaining fluency in tools like SQL, Python, and AWS. I have worked on several intensive projects that simulate real-world data engineering challenges and would bring the following strengths to your team:

- **DATA PIPELINE CONSTRUCTION:** In a recent capstone project, I developed an automated pipeline to collect, clean, and store traffic accident data from public APIs into a PostgreSQL database. I used Python, Airflow, and Docker to orchestrate the workflow, enabling easy updates and reproducibility. This kind of pipeline automation is directly aligned with how companies need to handle large volumes of dynamic data reliably and consistently.
- **CLOUD & DATABASE TOOLS:** In coursework and personal projects, I've worked extensively with cloud platforms including AWS and GCP. I built a prototype data warehouse using Amazon Redshift and created transformation scripts in dbt to support basic reporting use cases. These skills would support your team's efforts to centralize data for analytics, reduce latency in reporting, and improve data accessibility across departments.
- **PROBLEM-SOLVING & COLLABORATION:** Working in project teams throughout my graduate program, I've learned to translate business problems into technical solutions. In one project, I collaborated with a team to design a recommendation engine for an e-commerce dataset, combining SQL-based data modeling with Python-based feature engineering and pipeline automation. This experience reflects my ability to align engineering solutions with business objectives, which is critical for any private sector data engineering role where return on investment and usability matter.

I am excited about the opportunity to contribute to ABC's data engineering efforts and to grow as a member of a collaborative, forward-thinking team. I would welcome the opportunity to speak further and learn more about the role.

Sincerely,

[Your First Name Last Name]