

George A. Ramos Tejada

Santo Domingo, Dominican Republic | +1 (829) 989-5997
georgeramos199@gmail.com | [LinkedIn](#)

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Urban SDK Hiring Team
Jacksonville, FL
United States

Dear Hiring Team,

I am writing to express my strong interest in the Data Engineer position at Urban SDK. With my comprehensive experience in designing and implementing scalable data pipelines, cloud-based data platforms, and ETL/ELT workflows, combined with my proficiency in Python, AWS, and modern data engineering practices, I am confident in my ability to contribute meaningfully to your geospatial traffic analytics applications.

As a Software Engineer Specialist with a data engineering focus at Horatio, I have developed a deep expertise in building production-grade data architectures that align closely with your requirements. My experience includes designing automated data pipelines using Airflow, AWS Glue, and AWS Lambda on cloud platforms—skills that directly transfer to the Databricks and AWS S3 environment you utilize. I have successfully managed large-scale data ingestion and transformation workflows, processing semi-structured JSON data and complex datasets into analytics-ready formats, which is directly applicable to your large-scale geospatial and temporal datasets.

One of my key accomplishments has been architecting a Lakehouse infrastructure that unified a centralized Data Lake with a Data Warehouse, resulting in a 40% improvement in data availability and system efficiency. This experience demonstrates my capability to design scalable data pipelines and ETL/ELT workflows that can handle the volume and complexity of traffic and mobility data. Additionally, I have implemented robust data validation and monitoring frameworks to ensure data accuracy and consistency—critical components for supporting mission-critical decisions that your platform enables.

My technical toolkit aligns well with Urban SDK's requirements: I have strong proficiency in Python for data engineering tasks, hands-on experience with SQL for complex data transformations, and a solid understanding of cloud-based data architectures. I have implemented automated testing frameworks and CI/CD practices to ensure data pipeline reliability and have worked extensively with version control systems. While my primary experience has been with Snowflake rather than Databricks, my deep understanding of distributed data processing, Apache Spark concepts, and cloud platform architecture will enable me to quickly master Databricks and leverage it effectively for your use cases.

I am particularly drawn to Urban SDK's mission of shaping the future of Smart Cities through geospatial AI technology. The opportunity to build data pipelines that enable public leaders to make precise, data-driven decisions resonates deeply with my professional values. I am genuinely excited about the prospect of working with geospatial data and contributing to solutions that drive positive impact on critical public services.

My demonstrated ability to collaborate with cross-functional teams, communicate complex technical concepts clearly, and stay current with emerging data engineering trends positions me to be a valuable addition to your team. I am committed to continuous learning and am enthusiastic about expanding my expertise to include geospatial data formats and processing tools like GeoJSON and PostGIS.

I would welcome the opportunity to discuss how my background in designing scalable data pipelines, cloud data platforms, and Python-driven data engineering can contribute to Urban SDK's mission. Thank you for considering my application. I look forward to the possibility of speaking with you soon.

Sincerely,

George A. Ramos Tejada