Alexander Bolaño
Senior Data Engineer

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Work Experience

Wizeline   June 2024 to Present
Senior Data Engineer at Infobae _____

- Designed and implemented a comprehensive data warehouse for Infobae, enabling efficient data storage and analysis
- Engineered a data lake from scratch, enabling seamless storage of structured and unstructured data. This streamlined approach enhances data management, providing valuable insights and optimizing processing efficiency
- Established the protocol for transferring data from Arc API content to the data warehouse at Infobae.
- Migrated over 1.7 million records via API, including over 850 thousand subscribers, to the data warehouse
- Optimized BigQuery table partitioning to minimize costs and enhance query performance

Rappi   March 2021 to June 2023
Senior Data Engineer_____

- Increased sales leads by 20% for Rappi restaurants in Latin America through a custom Python, Folium, and Google Maps API app
- Reduced geospatial data analysis time by 80% (from 24 hours to under 4 hours) using automation, accelerating insights and decision-making
- Developed a data visualization app to identify optimal expansion areas, guiding strategic growth for Rappi's restaurant vertical
- Led the implementation of Apache Spark, achieving an 80% increase in data processing speed; revolutionizing data analytics capabilities, and empowering timely decision-making for strategic business growth

Vida 18   March 2020 to February 2021
Data Scientist_____

- Built an object detection YOLO model from scratch to detect the phenological state of the rose to predict the right cut
- Crafted a cutting-edge counting algorithm, slashing human count times from 1 hour to under 5 minutes, demonstrating a 90% improvement
- Enhanced object counting and successfully integrated models on resource-constrained devices like Raspberry Pi

Payvalida   April 2019 to December 2019
Data Engineer_____

- Streamlined payment gateway transaction reporting through automation, effectively reducing administrative workload
- Scheduled Python scripts to achieve an 80% speedup in data processing, ensuring timely data insights and improved business agility
- Provided valuable insights to our largest client by creating an incredible dashboard

Computer Science Expertise and Projects

Programming Languages: Python, SQL, Scala
Frameworks / Libraries: Pandas, Spark, PySpark, Geo pandas, Folium, Beautiful soup, sci-kit learn, Streamlit, Google Maps API, YouTube API
Orchestration Tools: Airflow, Step Functions, AWS Lambdas, Mage, Nifi
Databases: Postgres, Snowflake, BigQuery, AWS Redshift
Streaming Data: Apache Druid, Kafka, Timeplus
Infrastructure as Code / Containerization: Terraform,Docker
Cloud Provider: AWS, GCP and Databricks
Certifications: Apache Airflow Fundamentals, Apache Kafka Fundamentals, Mongo DB Basics, a Practical Dive into Data Build Tool (dbt)

Education

Universidad Industrial de Santander - UIS
BACHELOR OF SCIENCE, Petroleum Engineer   June 2013