

# Alexander Bolaño

+57 3222007879 | Bogotá, Colombia | [abolano.datexland@outlook.com](mailto:abolano.datexland@outlook.com) | <https://www.linkedin.com/in/alexanderbolano/>

## 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.
- Established a robust data lake to store structured and unstructured data, facilitating holistic data management and insights
- Defined the standard of how Infobae should move data from Arc API content into the data warehouse
- 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
- Implemented Apache Spark to achieve an 80% speedup in data processing, ensuring timely data insights and improved business agility

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
- Implemented a cutting-edge counting algorithm, reducing human count times from 1 hour to under 5 minutes, showcasing a 90% improvement
- Accelerated object counting and successfully deployed models on resource-constrained devices like Raspberry Pi

Payvalida April 2019 to December 2019

**Data Engineer** \_\_\_\_\_

- Automated all payment gateway transaction reports, alleviating the administrative burden
- Implemented 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