# William Alejandro Botero Florez

Data Engineer and Artificial Intelligence (in training)


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## About Me

I am a fifth semester student of Data Engineering and Artificial Intelligence, with experience in ETL processes. I am characterized by a high degree of commitment and professional maturity, which constantly drives me to expand my knowledge. I am committed to my continued growth and to contributing meaningfully to every team and challenge I face.

## Technologies

- Python
- Jupyter
- Power BI
- Excel
- SQL
- Docker
- R
- Airflow

## Languages

- Spanish - Native
- English - Intermediate

## Skills

- Good communication
- Critical thinking
- Frustration management
- Teamwork
- Stress management
- Continuous learning

## Studies

- **Data Engineering and Artificial Intelligence**

  Universidad Autónoma de Occidente

  2022 - Present

- Data processing and cleaning (ETL) using specialized tools (Python, SQL and Airflow).
- Descriptive analysis with tools such as Power BI, Matplotlib and Pandas.

## Experience

- **Minimarket TO GO Project:**

  Implemented an infrared sensor system and a Nodemcu ESP8266 v3 WiFi module to capture data on daily purchases, using Google Colab for data cleaning and analysis, and Power BI for visualization.

  Technologies: Nodemcu, infrared sensors, Google Colab, Power BI.

- **Minecraft Server Project:**

  I developed a Minecraft server using Google Colab and another using Docker, allowing efficient and scalable server administration.

  Technologies: python, Google Colab and Docker.

- **Analysis of Traffic Accidents in the USA:**

  I conducted an extensive analysis of a traffic accident data set in the United States, building an ETL pipeline to extract, clean, and load the data into a PostgreSQL database.

  I implemented a New York API to obtain data specific to that region, performing a combination between accident data from the entire United States and New York, enabling an integrated analysis of both data sets. In the end, I orchestrated the entire pipeline using Airflow.

  I generated detailed visualizations and analyses to identify patterns and trends that could improve road safety.

  I used Jupyter and Python for data processing and analysis, managing environment variables to ensure the project's flexibility.

  **Technologies used:** Jupyter, Python, PostgreSQL, New York API, environment variables, Airflow, VirtualBox, Power BI.

## References

- Andres Felipe Botero Florez
  Full-stack Developer
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- Javier Alejandro Vergara Zorrilla
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