

# Juan Sebastián Velásquez

## Electronic and Data Engineer

As a skilled and highly motivated data engineer, I have a strong educational background, with experience in programming and creating ETL pipelines using GCP, making me well-suited for a variety of data-related roles. My background in electronic engineering gives me a unique perspective and understanding of hardware and software systems. Additionally, I am well-equipped to work in diverse environments as I have lived and adapted to different cultures across various countries. Willing to relocate.



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## Work Experience

### Data Engineer/Product Analyst

TraxRetail

05/2023 - Present

Bogotá, Colombia - Remote

- Overall data cleaning and data extraction for data warehousing in BigQuery.
- Rel-time data streaming using Kafka connect, custom smts
- Product package image extraction for ML model training and deployment.
- Implemented pipeline reworks to decrease costs, and time from raw data extraction to client data serving, using various architectures (serverless, containers, etc).

### Data Engineer

Aptuno

02/2022 – 05/2023

Bogotá, Colombia - Remote

- Implemented python CI/CD web scraping pipelines using VMs and tools such as APIs, requests, Selenium, and Scrapy for AI models using AutoML and Scikit, which increased the property leads by 170%.
- Optimized and maintained data persistence processes using BigQuery as our EDW and Datastore for low latency/transactional applications.
- Developed and deployed a microservice-based call-center using Cloud Run, Flask and Twilio API, for the CX team, which resulted in an 85% decrease in costs in comparison with previous services.
- Created the infrastructure for a DialogFlow chatbot which, available via web and WhatsApp, allowed clients to move faster through the company's demand funnel and alleviated demand agent's workload.
- Designed dashboards to identify bottlenecks and take data-driven decisions regarding product releases using both PowerBI and Tableau.

## Skills

Python

SQL

Google Cloud Platform

PubSub

Webscraping

APIs

Flask

Github

Serverless

Power BI

Tableau

Databases

ETL/ELT

Redis

BigQuery

Docker

Modeling

Jira

Containers

Datastore

Linux

Scripting

Prototypes

OOP

Cloud Composer

Cloud Scheduler

Cloud Storage

## Education

### Electronic Engineering

Universidad de Los Andes

01/2016 – 12/2020

Bogotá, Colombia – 3.85/5

### Computer Vision for Electronic Engineering

Polytechnic University of Saint Petersburg

08/2019 – 02/2020

Saint Petersburg, Russia

### Electronic Engineering

DeVry University

10/2014 – 05/2015

Houston, United States

## Courses

- Building Cloud Computing Solutions at Scale (06/2022)
- Python, Bash and SQL for Data Engineering (04/2022)
- Google IT Automation (01/2021)
- Business English Communication Skills (07/2020)

[View All Courses](#)

## Organizations

- BioMicroSystems research group member  
(08/2019 - Present)
- IEEE member  
(01/2017 – Present)

# Juan Sebastián Velásquez

## Electronic and Data Engineer

### Work Experience

#### Consulting Analyst

Inventta

12/2020 – 03/2021

Bogotá, Colombia – Remote

- Provided consulting services to clients, helping them identify and achieve their goals for R&D+I projects.
- Managed the financial resources for R&D+I projects, ensuring that they were allocated and used efficiently.
- Created databases in both Google Sheets and Excel to analyze financial opportunities.

#### Process Consultant

APET

04/2021 – 07/2022

Bogotá, Colombia – Hybrid

- Managed and implemented python/bash scripts to automate the routes of telecommunication technicians, resulting in increased efficiency and productivity.
- Developed pipelines for data delivery and notification alerts through Slack API, which allowed for proper communication within the technical team.
- Designed and implemented alarm systems for telecommunication towers, resulting in a decrease in battery theft.

### References

Sandra Janeth Montoya, Senior Geomechanics Engineer, Exploration Vice-Presidency, Ecopetrol.

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Johann Faccelo Osma, Associate Professor, Department of Electric and Electronic Engineering, Universidad de Los Andes.

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### Languages

Spanish

Native or Bilingual Proficiency

English

Native or Bilingual Proficiency

Portuguese

Professional Working Proficiency

Russian

Intermediate Proficiency

### Interests

In my free time, I'm an avid diver, having achieved certifications as both a PADI and SDI rescue diver.

I am a self-motivated learner and enjoy taking online courses to improve my skills and knowledge, both personally and professionally.

I am also a fitness enthusiast and enjoy practicing archery and lifting weights.

I am a lover of travel and new experiences, and find joy in exploring different cultures, trying new foods and flavors.