

Juan Sebastián Velásquez

Electronic and Data Engineer

As a skilled and motivated data engineer with a strong educational background, I specialize in programming and creating ETL pipelines using GCP. My electronic engineering background provides a unique perspective on hardware and software systems. Additionally, my experience living in various countries equips me to thrive in diverse environments.



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Work Experience

Data Engineer/Product Analyst

TraxRetail

05/2023 - Present

Bogotá, Colombia – Remote

- Conducted comprehensive data cleaning and extraction for data warehousing in BigQuery.
- Managed MySQL to Kafka data transfers and schema fixes.
- Implemented real-time data streaming using Kafka Connect and custom SMTs.
- Developed and maintained Kafka to BigQuery data pipelines.
- Extracted product package images for machine learning model training and deployment.
- Optimized and reworked pipelines to reduce costs and processing time using serverless and container architectures.
- Conducted CI/CD steps for database migrations and managed cloud resources.
- Managed DevOps tasks for improved system monitoring and performance.

Data Engineer

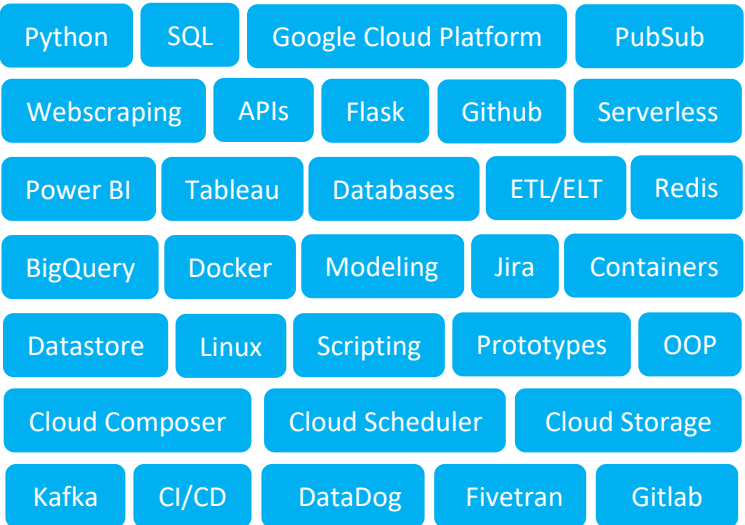
Aptuno

02/2022 – 05/2023

Bogotá, Colombia – Remote

- Implemented Python CI/CD web scraping pipelines using VMs, APIs, Requests, Selenium, and Scrapy for AI models with AutoML and Scikit, doubling property leads.
- Optimized and maintained data persistence using BigQuery as EDW and Datastore for low-latency transactional applications.
- Developed and deployed a microservice-based call center with Cloud Run, Flask, and Twilio API, reducing CX licensing costs by 85%.
- Created infrastructure for a DialogFlow chatbot, accessible via web and WhatsApp, streamlining client interactions and reducing agent workload.
- Designed dashboards with PowerBI and Tableau to identify bottlenecks and enable data-driven decisions for product releases.

Skills



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)

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Work Experience

Consulting Analyst

Inventta

12/2020 – 03/2021

Bogotá, Colombia – Remote

- Provided consulting services to clients, aiding in the identification and achievement of R&D+I project goals.
- Managed financial resources for R&D+I projects, ensuring efficient allocation and usage.
- Developed databases in Google Sheets and Excel for financial opportunity analysis.

Process Consultant

APET

04/2021 – 07/2022

Bogotá, Colombia – Hybrid

- Automated telecommunication technician routing using Python and Bash scripts, enhancing efficiency and productivity.
- Developed data delivery pipelines and notification alerts via Slack API, improving team communication.
- Designed and implemented alarm systems for telecommunication towers, reducing battery theft.

References

Sandra Janeth Montoya, Principal Geomechanics,
Geomechanics Exploration Department, Petronas.

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Edgar Mauricio Cadena, Technical and Operative Manager,
Non-Conventional Reservoirs 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

Beginner Proficiency

Interests

In my free time, I am a certified PADI and SDI rescue diver. I am a self-motivated learner, frequently taking online courses to enhance my skills both personally and professionally. As a fitness enthusiast, I enjoy archery and weightlifting. I also love traveling, exploring different cultures, and trying new foods.