



# F.E. Charry-Pastrana

DATA ENGINEER · MASTER OF SCIENCE · PHYSICIST

Mexico

[@ernestocharry/portfolio](#) | [in ernesto-charry-pastrana](#)

“The best way to create value in the 21st century was to connect creativity with technology” — Steve Jobs.

Data Engineer, Python Programmer, and Builder of **Simple Models**

**Professional Experience:** Simple Physics Model Approximations, **PySpark** Programmer, Time Series Modeling, **Power BI Enthusiast**, and Machine Learning Models.

**Academic Experience:** Detector Modeling, Nuclear Reaction Simulation, and Elemental Composition **Analysis**.

**I am seeking** to expand my experience as a Data Engineer and Data Analyst, with a strong willingness to **acquire new knowledge** across various domains (such as finance, commerce, and **supply chain**). I aim to deliver reliable programming and statistical expertise.

Proactive, committed, and a **strong team player**.

## Experience

### Coca-Cola FEMSA

Mexico City - Mexico

SPECIALIST DATA ENGINEER

Sept. 2022 - Present

- Configured end-to-end data pipelines from flat files to final databases using Microsoft SharePoint Portal, Azure Data Factory, and stored procedures.
- Enabled data availability for commercial dashboards using Azure Data Factory, Databricks, and SQL at various levels of granularity, transferring data from Azure Data Lake to Power BI.
- Explored new methods for data consumption using Microsoft Fabric.
- Developed and automated Excel macros to efficiently extract data from SAP.

### UnDosTres

Mexico City - Mexico

ETL DEVELOPER

Aug. 2022 - Aug. 2022

- Review, analyze, and monitor all data flows throughout the company.

### Ventagium

Querétaro - Mexico

JR DATA ENGINEER

July 2021 - July 2022

- Utilized time series models to predict sales, incorporating uncertainty intervals in the analysis.
- Performed ETL processes for data from various client sources to ensure readiness for Power BI reporting.
- Configured Durable Python Functions using Azure Key Vault and Azure Data Factory (ADF) to efficiently utilize and manage data.

## Skills

**Main** PySpark, SQL, Azure

**General** Power BI, R, C++, ~~ETX~~, Git

**Languages** Spanish (Native) and English (Intermediate level)



## Education and e-courses

### Databricks

[databricks.com](#)

2024

- Data Engineering with Databricks
- Advanced Data Engineering with Databricks

### Colombian Ministry of IT, Correlation One

Colombia

August 2020 -

FALL 2020 DATA SCIENCE FOR ALL

November 2020

- Graduated with Honors and Outstanding Teamwork.

### Universidad Nacional Autónoma de México

Mexico City, Mexico

January 2017 - June

MASTER OF SCIENCE DEGREE, HONORABLE MENTION

2019

- Thesis: Unified data for simulating compositions and improving efficiency in aquatic sediment analysis.

### Universidad Nacional de Colombia

Bogota, Colombia

BACHELOR'S DEGREE IN PHYSICS

July 2010 - June 2016

- Thesis: Systematic analysis of nuclear reactions of alpha particles.

### Coursera

[coursera.org](#)

- Macquarie University. Professional development: Improve yourself, always
- Johns Hopkins University. 1) Regression Models and, 2) Statistical Inference
- University of Maryland, College Park. Cybersecurity for Everyone
- University of Michigan. Applied Data Science with Python: 1) Introduction, 2) Machine Learning and, 3) Text Mining.
- University of Michigan. Web Applications for Everybody: Introduction to Structured Query Language (SQL).
- IBM. Fundamentals of Scalable Data Science. PySpark.