

Greater Vancouver  
BC, Canada

**MARCO BRAVO**  
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## EDUCATION

**Master of Data Science (GPA: 91%) | THE UNIVERSITY OF BRITISH COLUMBIA, CANADA** September 2023 – June 2024

- Master of Data Science (Domestic/International) Scholarship granted awarded for academic and leadership achievements.
- Capstone Project: Project DrillSense partnered with RioTinto. Created a dashboard with Dash library and GIS to visualize global mining trends and incorporated ML predictive algorithms (Random Forest was selected in the end) to identify future drillholes based on commodity, region, and other features: <https://github.com/Marconyl/dsensegif/blob/main/demo.gif>

**Master's Degree in Corporate Finance | UNIVERSIDAD DE LAS AMÉRICAS PUEBLA, MEXICO** June 2020 – December 2021  
**Specialization in Business Financial Management**

- Summa Cum Laude, GPA 3.96/4.00
- Institutional scholarship granted (60% of tuition covered)
- Comprehensive Project: "Consulting and development of a business solution for a beauty products franchise that wants to expand in times of Covid"

**Bachelor's Degree in Actuarial Sciences | UNIVERSIDAD DE LAS AMÉRICAS PUEBLA, MEXICO** August 2016 – June 2020

- Magna Cum Laude, GPA 3.92/4.00
- School of Science Scholar Award for achieving the highest marks in 2019
- Excellence scholarship granted (100% of tuition covered)

## EXPERIENCE

**Data Scientist, DATAKNOW S.A.S., Mexico** August 2022 – August 2023

- Databases clustered with ML (k-means, k-prototypes, DBSCAN, etc.) to fight against money laundering and financing of terrorism by profiling customers and identifying revealing insights as Colombian law required it for in various Grupo Bancolombia bank entities.
- Python Scripts, pipelines and workflows were developed to ensure the reproducibility of the best models identified for future use.

**Data Analyst, INDRA MINSAIT BUSINESS CONSULTING, Mexico** February 2022 – July 2022

- Cross Currency Swaps and Bonds' hedging strategies identified, reconciliated, and corrected between the bank's storage systems.
- Accounting entries cleaned and Roll Over reports automated on VBA following IFRS9 standards. Output folder established as a source for Salesforce and Murex to retrieve results.
- Accounting rules in Murex homologated and updated in accordance with the new accounting structure of the bank.

**Data Analyst (Internship), MEXICAN RAILWAYS NATIONAL MUSEUM, Mexico** June 2019 – March 2020

- Museum statistics surveys for the National Institute of Statistics and Geography (INEGI) carried out and data analyzed.
- VBA Userforms developed to automate survey data capture and uploading process to INEGI's platform.
- R script developed and tuned periodically to report graphs, figures, and insights of the information contained in the Excel sheets.

## SPECIALIZED TRAINING

**Microsoft:** AZ-900 (Feb 2022). **Society of Actuaries:** P (July 2020), FM (December 2020), IFM (November 2021), studying for SRM. **Informatica:** Cloud Data Integration (CDI) Partner Bootcamp Associate Certification (October 2022).

## TECHNICAL SKILLS

**Programming Languages:** Python, R, C, SQL, Power BI, Xpress IVE, Excel (Visual Basic), Murex, Salesforce, Informatica Cloud Data Integration. **Frameworks:** PyTorch, Hadoop. **Databases:** MySQL, MongoDB, PostgreSQL, Microsoft SQL Server. **Python libraries:** Scikit-Learn, Pandas, NumPy, Spacy, PySpark, PyArrow, Matplotlib, SciPy, Seaborn, Altair, Bokeh, Pillow, NLTK, Flask, Plotly. **R libraries:** Dplyr, Ggplot2, GGally, Shiny, TidyR, Lattice, Knitr, Lubridate, Tidyverse. **Tools:** Jupyterlab, VS Code, RStudio, git, Docker. **Cloud Platforms:** Azure, AWS.

## LANGUAGES

Spanish – Native speaker	English – Fluent	French – Fluent	German – Conversant
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## AWARDS

**Math Olympiad Winner, MEXICAN MATHEMATICAL OLYMPIAD** 2012 - 2015  
Junior Olympiad Bronze Medal Winner in 2012 and 2013; Senior Olympiad Finalist in 2014 and 2015.

## PERSONAL PROJECTS

**Smart home automation with Home Assistant open-source software and AWS** 2021  
Created local server with a Raspberry Pi and configured the Home Assistant open-source software to control my house's IoT devices locally without the need of any proprietary apps. Later, I created a lambda function on AWS that would let me connect my Alexa device to my local ecosystem and control my smart devices.

**Android devices personalization and data extraction**

- Enabled Google Services **natively** on devices that no longer support it (Huawei P40/Huawei P40 Pro)
- Extracted stored WiFi credentials from Android devices **without** rooting them via data mining.