

# CAIO C. VELASCO

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+34 611 85 03 96 | [caiocvelasco@gmail.com](mailto:caiocvelasco@gmail.com)

**Data & Analytics Engineer** with strong expertise in **dbt, Snowflake, Redshift, Databricks, SQL, Python, GitHub Actions, CI/CD, AWS, and Looker**. Almost **4 years** delivering **end-to-end** data platform solutions for global clients (Airlines, Sports, IoT, E-commerce, Insurance) and **2 years** applying Data Science methods in Academia. Additional exposure to **applied LLM systems** (prompt design fundamentals, context injection, basic RAG).

**Mechanical & Aerospace Engineer, Master's in Economics & Public Policy from UCLA.** Awarded **prestigious full scholarships** from the Lemann and General Electric Foundations for **academic excellence** in Brazil and USA.

## PROFESSIONAL EXPERIENCE

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### GLOBAL INDEPENDENT CONSULTING

*Data Engineer & Analytics Engineer Roles - 100% Remote & Contractor*

UK, USA, Brazil

January 2022 – Present

### **NTT Data Europe & Latam - Zurich Insurance (UK & Spain, Insurance)**

- Supporting the modernization and migration of legacy SAS data pipelines into dbt Core running on Databricks, fully integrated with Azure DevOps.
- Translating complex SAS business logic into optimized dbt models (staging, intermediate, marts), implementing incremental logic, custom macros, unit tests, and data quality checks to ensure reliability, lineage clarity, and production-grade consistency.

### **Javvy Coffee & Urban Stems - Online Coffee & Flower Delivery (USA, e-commerce)**

- Built end-to-end data pipelines, migrated legacy models, applied Kimball star-schema across Customer Support and Finance, following the medallion architecture.
- Led development of a scalable Data Platform powering internal and client-facing AI agents, enabling instant answers on data ingestion, metrics, flows, and dashboards.

### **FENG (Brazil, Sports / Football)**

- Developed a new data architecture solution to migrate legacy ETL processes from Pentaho to dbt-core and Snowflake, implementing both ingestion and transformation tools using CDC, SCD 1 and 2, incremental strategies, dbt tests and dbt macros. Focused on payment transaction data.
- The solution reduced their ETL process time in 97%, improving efficiency and cutting warehouse costs.

### **IAG - International Airlines Group (UK, Airline)**

- Migrated financial ETL processes into dbt-core models applying SCD Type 2 and incremental strategies.

### **Quext (USA, PropTech & Smart Home IoT)**

- Started as a Technical Product Owner and led the development of customizable reporting tools (control panels, dashboards, reports) for IoT data. Managed multiple stakeholders (Data Engineers, Back/Frontend Developers, Product Designers). Migrated legacy ETLs to dbt & Snowflake and improving data quality.

## APPLIED DATA SCIENCE PROJECTS IN RESEARCH

UK, USA

*Data Scientist - 100% Remote*

September 2018 – April 2020

### **Royal Holloway University of London**

- Linear Regression analysis with Python and R for a World Bank research project about the relationship between climate change and agricultural productivity in African countries with Professor Juan Paulo Rud.

### **University of California Los Angeles**

- Linear Regression analysis with Python and R for a project on the relationship between family planning and access to welfare in the United States with Professor Adriana Lleras-Muney.

## PREVIOUS BUSINESS-ORIENTED ROLES IN BRAZIL

Brazil (2013 – 2017)

### **Stone Co, Credit Card Processor - Entrepreneur in Residence**

- Stone is a Brazilian FinTech unicorn startup. I was its first employee, reporting directly to the founders. I designed the first draft of Stone's credit card reconciliation process.

### **MePrepara.com.br, a Mathematics Preparatory Online Course for GMAT and GRE - Founder**

- Designed a fully automated math course to prepare low-income Brazilians for the mathematics part of GRE and GMAT exams, required at the most prestigious MBA and PhD programs worldwide.

## **EDUCATION**

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### **TILBURG UNIVERSITY**

#### **PhD in Economics (unfinished)**

**Tilburg, Netherlands**

August 2020 – December 2021

- Top 5 European Economics Department. (*Due to family issues during COVID, I stopped and returned to Brazil*)
- Main topics: Advanced Statistics, Microeconomics, Causal Inference.

### **UNIVERSITY OF CALIFORNIA LOS ANGELES - UCLA**

#### **Master of Economics and Public Policy (Data Science track)**

**Los Angeles, USA**

August 2017 – June 2019

- Top 15 university worldwide - *The Times Higher Education World University Rankings*.

- Main topics: Data Science, Multiple Regression Analysis, Causal Inference, Consumer Behavior.

### **FEDERAL UNIVERSITY OF RIO DE JANEIRO - UFRJ**

#### **Bachelor of Science in Mechanical Engineering (5-year degree)**

**Rio de Janeiro, Brazil**

December 2012

- Top 8 Latin American university - *QS Latin America University Rankings 2023*.

- **Highest grade** in the class of 2012 of 100+ students

## **AWARDS**

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### **Koopmans Scholarship, Tilburg University, Netherlands, 2020**

- Awarded the Koopmans Scholarship for academic excellence.

### **Lemann Foundation Scholarship, UCLA, USA, 2017**

- Top Brazilian professionals accepted at Harvard, Stanford, MIT, Columbia, UCLA, or Oxford.

### **Global Pre-MBA Leadership Program, Yale University, USA, 2013**

- Top 60 young people all over the world selected to explore MBA education, sponsored by Goldman Sachs.

### **Change Course Conference, The Club of Rome, Switzerland, 2012**

- Top 60 young people all over the world selected to explore MBA education.

### **Mechanical Engineering, Federal University of Rio de Janeiro, 2012**

- Awarded the highest recognition due to the highest grade among all mechanical engineering students.

### **Brazilian Government & USA Department of Education, 2011**

- Full Scholarship to study mechanical engineering at North Carolina State University in the USA.

### **General Electric Scholar-Leader Program, Brazil, 2010**

- Global scholarship to the top 10 Brazilian engineering students with both leadership and social skills.

## **SKILLS**

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- **Data Analytics & Integration:** SQL, Python, dbt (Core & Cloud), Snowflake, Redshift, DuckDB, Metabase, Rill, Looker, Meltano, Fivetran, ETL/ELT
- **Infra & DevOps:** AWS (S3, IAM), Docker (basic), Git, GitHub Actions (CI/CD)
- **Applied AI:** LLMs (prompt design fundamentals, context injection, basic RAG concepts)
- **Foundations:** Advanced Math, Advanced Statistics, and Advanced Econometrics (Causal Inference methods)
- **Languages:** Portuguese (Native), English (Fluent), Spanish (Advanced).