

# Ricardo Pérez Castillo

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Berkeley, CA

## EDUCATION

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### University of California, Berkeley

*M.A. in Statistics*

**Aug 2025 – Present**

Berkeley, CA

- **Coursework:** Advanced Probability and Statistics, Statistical Computing, Linear Models, Machine Learning.

### Tecnológico de Monterrey, Campus Monterrey

*B.S. in Chemical Engineering*

**Jan 2015 – Dec 2019**

Monterrey, México

- **Cumulative Grade Point:** 91.38/100 (Class Rank: 3/19).

## EXPERIENCE

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### McKinsey & Company

*Sr. Software Delivery Analyst, Data*

**Jul 2022 – Jul 2025**

San Pedro Garza García, México

- Led data engineering for Spendscape deployments across U.S., Germany, and LatAm clients (Consumer, Energy, Manufacturing, PE, Tech), owning end-to-end data ingestion, transformation, and enabling opportunity insights.
- Extracted and consolidated spend data from 16 client ERPs (e.g., SAP, Oracle, Coupa), using ERP-specific extraction (SAP queries; Coupa REST API via SnapLogic; SFTP → S3 landings) and loading into SQL Server (SSMS) for downstream modeling; largest single run 400M rows spanning 24 months.
- Built automated pipelines (API/SFTP → S3 → warehouse) and Python loaders, reducing refresh cycle time from 2-3 days to 24 hours.
- Designed a layered SQL Server warehouse (staging → standardized → business logic → BI views) with a star schema (fact/dim), unifying invoice/order transactions with master data (e.g., supplier, accounts, payment terms) via rule-based harmonization and automated, reproducible monthly refreshes.
- Presented executive-ready insights and opportunity sizing to senior client leadership, establishing a single source of truth for spend; quantified a \$340–\$460M modeled value opportunity (USD) for a tire manufacturer via raw-material price arbitrage analytics.
- Built an end-to-end GenAI spend categorization pipeline (DWH extract → internal model scoring → SSMS write-back via primary keys), appending suggested taxonomy labels to DWH line-item records and cutting manual classification from weeks to days.
- **Equal at McKinsey:** Board member and Monterrey office leader for McKinsey's LGBT+ network; organized office-wide D&I initiatives aligned with the firm's strategic vision.

### Deloitte

*Consulting Analyst*

**Jan 2021 – Jun 2022**

Monterrey, México

- Delivered multiple cross-industry spend analytics engagements for U.S. clients, classifying and analyzing a combined \$114B USD in spend.

- Reduced supplier harmonization time by 60% (5 to 2 days) by building a spaCy-based NLP entity-resolution script trained on AP and PO data.

- Built ETL workflows (Alteryx/Python) across AP, PO, T&E, and P-card sources (millions of rows) and retrained a Google Cloud ML model, improving categorization accuracy by +15 pp.

- Identified category-level savings opportunities (typically 10–20%) using classified spend + benchmarking.

- Built Tableau dashboards and presented insights to procurement stakeholders to prioritize opportunities and drive action.

### Heineken

*Operations Intern*

**Aug 2019 – Dec 2019**

Monterrey, México

- Performed an energy assessment of the current pump system and delivered several improvement options to reduce

energy and increase efficiency.

## Ternium

*Manufacturing and Operations Intern*

**Jul 2018 – Jul 2019**

*San Nicolás, México*

- Reduced process time (1 min per product) for a specific family of commercial steel in cold-rolled mill operations.

## SKILLS

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**Languages:** English (TOEFL iBT 105; MyBest Scores 111), Spanish (Native)

**Programming:** Python, SQL

**Data Science:** pandas, NumPy, scikit-learn

**Data Engineering:** SQL Server (SSMS), Snowflake, SnapLogic, Alteryx, APIs, SFTP/S3, Data modeling (star schema).

**Cloud/Dev:** Azure, Google Cloud, Git.

**Visualization:** Power BI, Tableau.

## PROJECTS

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### Digital Water (Atos IT Challenge 2020)

Jan 2020 - Aug 2020

Built an ML-based prototype to forecast city-level water demand from network data and estimate “days-to-threshold” for safe water levels. ([Link](#))

- Placed **2nd** among hundreds of international teams; presented to the **CEO of Atos** and the Atos Scientific Board.
- Implemented the end-to-end workflow in Python (data preparation, modeling, and lightweight app/dashboard for results exploration).

### Personal Expenses Cube

2024

Built a personal finance analytics pipeline that consolidates transactions across accounts into a unified dataset for tracking spend, trends, and budgets.

- Automated data cleaning, categorization, and monthly reporting in Python; designed a consistent structure to enable repeatable analysis over time.
- Increased monthly savings from **10% to 40%** toward funding graduate studies.