Luis Ramírez Guzmán

Data Engineer

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Data Engineer with 1 year of experience. Database scripting for periodic uploads guaranteeing data availability. Drove data acquisition and transformation in a cloud environment using SparkSQL, Python and Scala. Analyzed and provided data consumption reports on multiple enterprise systems with over 20,000 monthly active users.

SKILLS

Tools and Languages	Python, Git, LaTeX, SQL Server, Tabular Models, R, PowerBI, Microsoft Excel
Cloud Infrastructure	SQL DB, Azure Data Lake, Databricks, Synapse, MongoDB, Azure Functions
Quantitative Research	Deterministic and Stochastic Optimization, Statistical Modelling, ML Models
Communication	English, Spanish (fluent speech, reading, writing)

TECHNICAL EXPERIENCE

Software Engineer   **10 2021 — Present**
Microsoft Corporation

- Optimize processing notebooks in cloud environments by parallelizing workloads. Replace SQL cursors and linear logic with a map-reduce approach using Spark's Python annd SQL apis, took runtime from hours to minutes for large datasets.
- Distribute datasets with One Source of Truth as the north star. Followed a strict no-copy data management approach. Implemented QA on final datasets to detect variance.
- Establish reliable jobs for periodic data intake and processing (ETL & ELT). Pushed data from SQL DBs on premise to Data Lake with tools like Azure Data Factory.
- Drive cost and time improvements by detecting data misuse across frontend systems. Discovered very low concentration of use in a part large datasets, leading to its retirement and subsequent processing time and cost savings.

Data Science Finance Intern   **04 2021 — 10 2021**
HP Inc.

- Automate processing of financial data using SQL, Python, SharePoint, Shell Scripts, PowerBI and Excel. Liberated over 100 hours of human time as a product of automation.
- Create views and reports, populate them periodically with financial data and project management KPIs. Executive views reduced frequency of managerial meetings with individual teams.
- Listen to users internally. Replace manual pain points with automation through scripts, remote processing or the introduction of a better technology. Sent email reports automatically, saved data centrally and replace obsolete Access DB and macros with efficient queries and scripts.

EDUCATION

Bachelor of Engineering in Data Science & Mathematics, *Tecnológico de Monterrey*   Expected Graduation Date: **06 2023**

- Generate routing protocol for eCommerce package delivery, driving cost improvements in fuel and time savings for our research partner, the nationwide department store Coppel.
- Perform risk analysis on a national insurance company. Provided recommendations on risk mitigation, suggestions on price relative to competition and created bankruptcy stochastic simulations.
- Analyse data from the Monterrey Environmental Monitoring System. Issue recommendations to this government authority to tighten environmental regulation due to trend behaviour and sensor variance accounting.
- Develop an application for medical doctors to consent on patient forms requiring multiple digital signatures. Require compliance in the correct use of cryptography. Delivered application to the Teletón Foundation's children rehabilitation centers.

ACTIVITIES

Engineering Expo, Tecnológico de Monterrey, Capacitated Vehicle Routing Problem	Spring 2021
Data Analysis for Marketing: Develop marketing campaign for Fábricas Selectas	Fall 2020
Industrial Simulators (Mechanics and Electronics), Tecnológico de Monterrey, Undergraduate Project	Spring 2020
Projectile Launch Simulator, High School development program, Universidad Panamericana	Spring 2019