

# MARWIN OSPINA

## Data Engineer

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### TECHNICAL SKILLS

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SQL, Python, Tableau, Statistics, Advanced Excel, Google Analytics, SAS, Git, AWS, Terraform

### PROJECTS

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#### NYC Taxi & Limousine Commission Vendor Evaluation for Jan - June 2016

*Analyzed the performance of two vendors by examination of 500,000 rides*

- Used SQL, Excel, Python (Numpy, Pandas, Seaborn, Matplotlib, and Scipy), and Tableau for importing, cleansing, and exploratory data analysis (EDA)
- Performed a Welch's t-test to understand if there was a statistical difference between the vendors' trip duration
- While both vendors had equal avg. trip duration, the t-test showed their average trip durations were different

#### Airbnb Berlin

*Analyzed a total of 24,678 listings in Berlin, Germany from 2008 until 2020*

- Imported, cleansed, and filtered data to recommend investing options and predict prices
- Used Python (Numpy, Pandas, Seaborn, Matplotlib, Statsmodel, Scikit-learn), and Tableau for EDA and data viz
- Found through the data that four and five-bedroom apartments in the neighborhoods of Friedrichshain-Kreuzberg and Charlottenburg-Wilmersdorf neighborhoods are best to invest
- Ran a linear regression model to predict future prices for listings

### PROFESSIONAL EXPERIENCE

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#### Correlation One-Data Science for All, Data Engineering Fellow

Apr 2023 - Aug 2023

- Selected to participate in a data engineering Fellowship (4% acceptance rate) with learning facilitated through real-world data science business cases
- Collaborated with a group of five to build a data warehouse to analyze the financial impact of the Paycheck Protection Program (PPP) loans on the balance sheet of lenders.
- Built a data pipeline with Python, AWS, Terraform, and Apache Airflow; and performed analysis and visualizations using Python and Tableau
- Created a detailed project plan with biweekly meetings to assign deliverables and ensure the timeline remained on track, received mentorship and guidance from an industry data engineer

#### Healthfirst, Financial Data Analyst

Jun 2021 - Present

- Lead data visualization engineering for Risk Analytics teams in the Finance department. Working closely with leadership to deliver dashboards that provide insights and enable data-driven decisions efficiently
- Mentor Junior and Senior Analyst in designing data visualizations, and delivering data and analytic solutions
- Build membership and financials dashboards for executive leadership, with ranking and weighing metrics to be responsive to cross-departmental needs and goals
- Produced and published reports for hospital and physician groups in the Healthfirst network relating to their financial performance
- Reviewed and prepared accruals to assist Pools, and General Ledger teams in the monthly close process
- Contribute to the optimization of data management, by refining SQL queries used in everyday business functions and assisted in the data migration from SAS to AWS (Redshift)

### EDUCATION

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Galvanize New York  
DATA - Data Analyst Training Accelerator  
Award Recipient, 1 of 33 out of 2,714 appl.

Hunter College, City University of New York  
Media Communications  
Academic Award Recipient