ISAAC BACA

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PORTFOLIO:

Education

MASTER OF EDUCATION – QUANTITATIVE METHODS   2021 - 2023
Vanderbilt University – Nashville, TN   3.93 GPA

BACHELOR OF SCIENCE – DUAL DEGREE IN PSYCHOLOGY & SOCIOLOGY   2014 - 2020
Middle Tennessee State University – Murfreesboro, TN   3.81 GPA

Technical Skills

- **Python** (pandas, NumPy, seaborn, matplotlib)
- **SQL** (SQL Server, Postgresql)
- **R** (tidyverse: dplyr, ggplot2)

- **Excel** (XLookup, Pivot Tables, Slicers, Charts/Graphs, Conditional Formatting, Power Query, Dashboards)
- **Statistics** (Regression, ANOVA, Multivariate methods, Multilevel modeling)

Work Experience

STATISTICAL CONSULTANT   OCT 2023 – PRESENT
Freelance

Performed a comprehensive market analysis of the Turo market in Nashville, including data scraping, cleaning, and analysis, and provided recommendations to the client on the most profitable makes, models, and years, as well as recommendations on how to price the vehicle to maximize their return on investment.

- Cleaned and analyzed data using Python
- Built an interactive dashboard in PowerBI to visualize key insights.
- Assessed data normality using histograms, QQ-plots, and the Shapiro-Wilk test.
- Applied non-parametric statistical tests including Mann-Whitney U, Kruskal-Wallis, and Dunn's test with Bonferroni correction.

DATA SPECIALIST   OCT 2023 – PRESENT
Boys and Girls Clubs of America **–** Atlanta, GA (remote)

Led nationwide data migration initiatives for Boys and Girls Clubs organizations, transitioning from legacy systems to a new salesforce backed software platform for multiple organizations.

- Successfully managed data migrations for 14 organizations, each involving over a million records.
- Conducted comprehensive data analysis and validation procedures to ensure the quality of data prior to migration.
- Provided feedback including suggestions and action items in the weeks prior to migration.
- Collaborated with implementation specialists to align data migration processes with system configurations.
- Enhanced data cleaning efficiency for the data team by transitioning manual Excel processes to automated **Python** pipelines, reducing task completion time from hours to minutes.
- Used **SQL** queries to validate and update data in the client's new system post migration.

DATA ANALYST APPRENTICE   AUG 2023 – MARCH 2024
Nashville Software School **–** Nashville, TN (remote)

Intensive seven-month bootcamp focusing on data analytics fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.

- Analyzed data using Microsoft Excel, including utilizing pivot tables and lookups, and connected to external data sources using the PowerPivot add-on
- Built and deployed dashboards using Tableau and PowerBI
- Wrangled data and performed exploratory data analysis using Python's pandas library
- Created data visualizations using matplotlib and seaborn
- Gathered data through APIs and webscraping
- Performed geospatial analysis using geopandas and folium
- Retrieved and analyzed data using PostgreSQL and sqlalchemy
- Source code version control with Git/GitHub
- Project management/tracking with GitHub project boards and issue tracking

HEALTHCARE POLICY DATA ANALYST - INTERNSHIP   JAN 2023 – APRIL 2023
Vanderbilt University Medical Center **–** Nashville, TN (remote)

Analyzed data from a large healthcare claims database to assess the effectiveness of opioid cap laws in reducing opioid prescriptions during the postpartum period.

- Used **SAS** and **SQL** to transform data into a format that is suitable for analysis in **R**.
- Conducted data analysis using difference-in-differences regression in R.
- Summarized and presented results to team of researchers and healthcare policy experts.