

BEN MEIER

📍 Chicago, IL

📞 608-620-4620

✉ meier_benjamin@yahoo.com

🌐 <https://bennnyys.github.io/Ben-Meier/>

SUMMARY

A programmer passionate about leveraging data and technology to improve socioeconomic, environmental and political issues. I have 6 years of experience working with as programmer to leverage data and technology to inform economic research, policy and financial regulation.

EDUCATION

Master of Information and Data Science, University of California, Berkeley

📅 2022 – Present

- GPA 4.0 of 4.0, 2024 expected graduation
- Machine learning, experiment design, data engineering

BS, Applied Math, Industrial Engineering, Iowa State University

📅 2011 – 2016

- GPA 3.9 of 4.0

TECHNICAL SKILLS

Programming: Python (pandas, NumPy, psycopg2, Scikit-learn, Keras TensorFlow, Beautiful Soup), R (RStudio, tidyverse, ggplot2, dplyr, shiny), SAS, AWS sagemaker, AWS S3, Google colab

Data skills: Databases (PostgreSQL, SQL Server, SSIS), Anaconda, Git, VS Code, Visual Studio, Jira, Agile

Data engineering: AWS EC2, GCloud Compute, Linux, Docker, PostgreSQL, Neo4j, Mongo, Redis, Kafka, Zookeeper, NGINX

Visualization: Tableau, Python (Matplotlib, Seaborn, Plotly), HTML, CSS

Methods: Machine learning (clustering, K means, K nearest neighbors, decision trees, random forest, naive Bayes, neural networks, CNN), Statistics (logistic/linear regression, gradient descent)

PROFESSIONAL EXPERIENCE

Federal Reserve Bank of Dallas

📍 Dallas, TX

Programmer Analyst II, Statistics

📅 2019 – Present

- Developed four extract-transform-notify python automation jobs to eliminate over 700 hours of staff work per year
- Designed and implemented new ETL process to transition survey collection platform to new PaaS environment
- Developed K-means clustering and KNN clustering notebooks to pilot AWS Sagemaker environment
- Performed data migration and database design to on-board two new survey collections
- Developed dashboard for preliminary survey data to enable on-demand customer data access, thus eliminating a 1-day lead time
- Led requirements, development, testing, and deployment of five minor version software releases
- Developed python scripts to migrate survey data in real-time to new database environment

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Federal Reserve Bank of Dallas

📍 Dallas, TX

Economic Research Analyst, Research

📅 2018 – 2019

- Developed R script to automate the retrieval, cleaning, and validation of data for economic modeling
- Developed VBA excel workbook to automatically update FOMC regional data, eliminating 4 days of rework for every 6-week cycle
- Provided research support and analysis for real-time economic updates in the 11th District

Federal Reserve Bank of Dallas

📍 Dallas, TX

Business Operations Analyst, Houston Branch

📅 2016 – 2018

- Improved data collection and analysis of district cafeteria IRS de minimis calculation
- Analyzed and summarized regional economic conditions for the Board of Directors
- Supported executive leadership research requests during and after Hurricane Harvey
- Represented Houston Branch on the President's Sustainability Initiative Council

PROJECTS

Predicting Building Site Energy Usage

- Predicting building site energy usage using building performance data. Linear regression and random forest models were trained, but a random forest showed the lowest mean absolute error (TensorFlow, sklearn)

Exploratory Data Analysis of Los Angeles Traffic Collisions

- Course final project demonstrating experience with EDA and visualization in python (pandas, Seaborn)

Clustering Analysis of Holding Companies

- Self-directed project to identify clusters of financial institution in U.S. using public FR Y-9C data. Uses EDA, K-means and KNN clustering, and visualization in python (pandas, NumPy, scikit-learn, Matplotlib, Seaborn)

VOLUNTEER

- Mentored 2nd grade students through coding challenge (Bold Idea/ideaSpark)
- Sustainability Initiative (project manager for waste management, data analyst for calculating travel emissions)
- Eagle Scout

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