

Tal G. Roded

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PROFESSIONAL EXPERIENCE

Starbucks

Data Scientist

Remote

Jan 2024 – Present

- Work with regional teams in EMEA, AP, and LAC on developing strategic pricing recommendations
- Conducted many deep dive ad-hoc analyses on specific products and seasonal promotions using SQL and Python to build foundational knowledge and inform product development strategy
- Facilitate user acceptance testing, launch, and socialization of cross-market dashboards for LAC region
- Consult on key datasets, adapting US best practices for Starbucks Digital Solutions data

Accenture

Senior Data Science Analyst

New York, NY

Nov 2022 – Jan 2024

- Developed econometric model in R to forecast Generative AI productivity impact by occupation, industry, geography; created interactive PowerBI of forecasts used by 10,000+ consultants, analysts, and stakeholders across internal and client teams
- Reduced monthly reporting time by 95% by implementing Python data APIs and constructing a data pipeline in SQL (BigQuery) and Jupyter Notebook for updating economic indicators and generating macroeconomic/labor market trends
- Identified emerging technologies via SQL and Google Cloud Platform-based data analysis of job postings, investor funding, patents, news articles, and earnings call data, utilizing Python to quantify economic implications and form forecasts
- Implemented data science techniques including regression analysis, AI (GPT-3, GPT-4), Natural Language Processing, sentiment analysis, K-means clustering models, and data visualization to support publications for the World Economic Forum, Davos
- Conducted workshops and presentations to teach colleagues how to integrate AI into research and data science workflow

Federal Reserve Bank of Philadelphia

Research Associate

Philadelphia, PA

Aug 2019 – Nov 2022

- Performed econometric analysis in SQL and R on datasets with millions of observations to forecast trends across dozens of macroeconomic variables; automated production of charts for monthly monetary policy briefings presented to the Fed Board
- Collected, cleaned, and analyzed unemployment and income data to forecast trends and create county-level geographic maps for a research brief on COVID's effects on labor supply, economic recovery; recommended optimal policy response to Fed President
- Measured, updated monthly job postings and hiring data in SQL by pulling, aggregating, and charting datasets of billions of rows
- Extracted U.S. Census microdata using APIs to describe and forecast trends in the U.S. labor market for quarterly policy reports

Research and Data Mining Analyst

- Authored publication on financial trends in real estate markets based on panel data analysis of homeownership and housing prices
- Aggregated, cleaned, and analyzed datasets consisting of 100+ variables and 25+ million observations using regex, classifications

PROJECTS AND LEADERSHIP

Menti

Founder & Content Lead

New York, NY

Oct 2020 – Present

- Founded a nonprofit dedicated to providing free educational resources, workshops, and mentorship to teens and young adults
- Created web pages and interactive data exploration tools to assist career exploration on the menti.club website using R Shiny
- Authored articles on personal & professional development, tracked engagement of 6,000+ monthly visitors with Google Analytics

Visualize Curiosity

Founder & Writer

New York, NY

Aug 2018 – Present

- Created and continue to publish a data science informational website with 10+ data-driven articles on economic news and trends
- Collaborated with industry partners and brands to produce data visualizations in R and write blogs viewed by 10,000+ visitors

Publications:

- On the Move: U.S. Migration and Economic Mobility during the 1940s (with Fujita, Ramey). *Forthcoming*.
- Reopening the Economy: What Are the Risks, and What Have States Done? (with Atalay, Fujita, Michaels, Mahadevan). Federal Reserve Bank of Philadelphia Research Brief. July 2020.
- Income-Education Gradients in Developing Nations. *OSU Journal of Politics & International Affairs*. Volume XII. Spring 2019.
- Recent Developments in New Jersey's Housing Market (with Wenli Li). Rutgers U. Real Estate Center. Sep. 2018.

EDUCATION

University of Pennsylvania

Post-Baccalaureate Studies Program in Mathematics

Philadelphia, PA

University of California-San Diego

Bachelor of Science in Joint Math-Economics

La Jolla, CA

RELEVANT SKILLS

Programming Languages: SQL, Python (pandas, matplotlib, nltk, PyTorch, scikit-learn, tensorflow), R (tidyverse, ggplot2)

Data Science & Technical Skills: Data science pipeline (wrangling, visualization, modeling, interpretation), Statistical Models and Analysis, Hypothesis Testing, Regressions, Natural Language Processing, Cluster Modeling, Machine Learning, PowerBI, AI