

KRISTINA FRAZIER

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Experienced Full-Stack Data Scientist with strong skills in data collection and engineering, model development, and data visualization and storytelling. Proficient in both technical data science and consulting skills, including effective communication, building consensus, and problem-solving for stakeholder solutions.

EDUCATION

Master of Science in Data Science | American University | 2025
Master of City Planning | University of Pennsylvania | 2013
Bachelor of Arts in History | Georgetown University | 2009

SKILLS

Coding: SQL, Python, PySpark, R, Git
Platforms: Databricks, Jupyter, Snowflake, DBT
Visualization: Looker, Tableau, Qlik

DATA SCIENCE PROJECTS

Data Science Practicum (DATA-793, American University, MS in Data Science) Spring 2025

Secondhand Fashion Market Research Tool: Full-stack data science capstone project resulting in an interactive Dash application enabling analysis of eBay listing data for reseller business interests. Developed a Python eBay API call for collecting data, cleaned and transformed data, trained and developed an OLS regression model for listing price prediction; and developed a Dash app to enable real-time price predictions and market trend analysis for fashion resellers.

Statistical Machine Learning (STAT-627, American University, MS in Data Science) Fall 2024

National Hockey League (NHL) Wins Classification: Developed classification models using logistic regression and LDA to predict NHL wins based on game statistics. Analyzed performance metrics like Fenwick Percentage and shot metrics to generate high-accuracy insights for team improvement.

Predictive Analytics (ITEC-621, American University, MS in Data Science) Fall 2024

Telco Customer Churn Prediction: Engineered machine learning models (logistic regression, LDA, random forest) to classify customer churn. Identified key factors such as tenure and service type to drive customer retention strategies.

PROFESSIONAL EXPERIENCE

Lead Data Scientist | Booz Allen Hamilton | Alexandria, VA | 06/2022 – Present

- Onboard new data sources by building and maintaining robust data models in Databricks with SQL, Python, R, and PySpark—supporting the DoD's mission of using data-driven insights to enhance readiness.
- Lead comprehensive data analysis by refactoring and optimizing pipelines with SQL/Python scripts, streamlining data retrieval, cleaning, and feature engineering to produce actionable insights.
- Develop Qlik dashboards featuring interactive visualizations for self-service analysis of mission readiness data, while implementing quality control measures, managing metadata, and ensuring data accuracy, consistency, and security.

Product Data Analyst | Bread Financial | New York, NY | 01/2022 – 06/2022

- Developed SQL data models using Snowflake and DBT, enabling product managers to assess product performance.
- Built Looker dashboards to model data for buy now, pay later loan products to express performance KPIs.

Data Research Analyst | The Heinz Endowments | Pittsburgh, PA | 01/2021 – 12/2021

- Mined historical grant data with SQL to report descriptive statistics on the financial impact of proposed grants.
- Employed Python to wrangle, clean, and integrate multiple datasets, enhancing overall data quality.
- Analyzed and reported state, county, and regional demographic data to inform strategic grantmaking decisions.

Map Creation Specialist | Uber Advanced Technology Group | Pittsburgh, PA | 01/2020 – 12/2020

- Created detailed digital maps for autonomous vehicle navigation by developing roadway condition representations to support self-driving algorithm development.
- Conducted quality assurance reviews to ensure map accuracy and data reliability.
- Leveraged QGIS to curate and analyze GIS data for identifying new mapping opportunities.

Planner III, Military/Federal Master Planner | WSP USA | Pittsburgh, PA | 03/2019 – 01/2020

- Provided urban planning consulting for Air Force, Army, and Navy installation clients, supporting facility renovations and new construction projects.
- Facilitated stakeholder workshops to develop detailed facility plans that aligned with client objectives.
- Researched and documented existing conditions to guide strategic infrastructure development and client reporting.

Urban Planner & Data Analyst | Arlington County Government | Arlington, VA | 02/2017 – 03/2019

- Conducted demographic research using SQL to deliver data-driven insights on the impacts of urban policies.
- Analyzed commercial and residential development trends through quarterly and annual reports.
- Assisted in 2020 Census preparations by updating address data for 100,000+ residential units and leading updates to local Census geographies.

Planner II, Military/Federal Master Planner | AECOM | Arlington, VA | 03/2014 – 02/2017

- Developed long-range facility master plans for NAVFAC clients by conducting urban planning research and documenting space requirements.
- Facilitated stakeholder workshops to build consensus on master plan implementation strategies.

Environmental Planner WSP USA (Former Parsons Brinckerhoff) | Philadelphia, PA | 06/2013 – 03/2014

- Consulted for local and regional transportation authorities by providing environmental planning expertise.
- Researched and authored sections of Draft Environmental Impact Statements, analyzing existing conditions and alternatives for major transportation projects.
- Developed planning public meeting reports to support state-funded climate resiliency initiatives.

DATA SCIENCE TRAINING

Tech Ex Data Science Bootcamp | Data Society | 2022

Data Analytics Career Track | Springboard | 2021

Google Data Analytics Specialization | Coursera | 2021

Statistics with Python Specialization | Coursera | 2020

Data Analyst Nanodegree | Udacity | 2020

Programming for Data Science with Python Nanodegree | Udacity | 2020