

Joseph Cahill

Philadelphia, Pennsylvania (484) 844-1126

jcahill12345@gmail.com · www.linkedin.com/in/joseph-a-cahill

Data Scientist with expertise in advanced analytics tools, specializing in spatially informed data solutions.. Strong interest in sustainability planning in urban spaces and energy infrastructure.

Skills

Python, R, SQL, ArcGIS, Power BI, Remote Sensing, Spatial Data Analysis, Machine Learning Algorithms, Microsoft Office Suite, Problem Solving, Team Leadership

Education

Master of Urban Spatial Analytics, University of Pennsylvania May 2026

- Conducted in depth study of Philadelphia bus ridership using Poisson and Negative Binomial Regression models to identify key features of passenger volume.
- Collaborating with the Distributed AI Research Institute to design and implement a comprehensive spatial data pipeline analyzing access to healthcare services in South Africa, integrating census data and Snowflake based infrastructure to support policy relevant insights. (In Progress)

Bachelor of Science in Information Science, University of Colorado Boulder Dec 2023

- Python programming background with experience applying Pandas, Numpy, Altair, and Seaborn to sort and interpret data.
- Utilized SQL and Google BigQuery to interact with a large database of user reviews and visually represented trends using Tableau.

Experience

Data Analytics Specialist, IQVIA Philadelphia, PA - Oct 2024-Present

- Identified and tiered health care providers and organizations in specified indication areas as market research for fielding of new treatment techniques.
- Joined, edited, and validated large datasets from sources inaccessible by traditional methods using Python and R scripts.

Data Scientist, CACI International Inc. Wharton, NJ - Jan 2024-Oct 2024

- Consolidated and Migrated data from various internal trackers into a cohesive database while providing a new reporting strategy using Power BI.
- Consulted management from various departments on data strategy and recommended collection and governance techniques.

Data Analysis Intern, Renewable Energy Systems Denver, CO - Jun 2023-Aug 2023

- Assisted with day-to-day analysis and reporting of renewable energy assets, including wind, solar, and energy storage.
- Created an interactive dashboard using Power BI to display visitor logs, maintenance requests, and major site incidents.
- Analyzed two years of historical fault data from a battery energy storage system to identify persistent failure patterns and aggregate alarm codes using Python, supporting maintenance planning and system reliability.
- Identified and troubleshooted resolutions for missing, stale, and corrupt data while assisting a SCADA Engineer in the migration of historical data from a SQL Server database to Azure Blob Storage.

Reconnaissance Team Leader, U.S. Army Fort Campbell, KY - Aug 2015-Feb 2020

- Led small teams responsible for collection, analysis, and reporting of high-priority data in dynamic environments, delivering actionable intelligence under time constraints.

Interests and Hobbies

Caving Club at CU Boulder, CU Boulder Hiking Club, Backpacking, Rock Climbing, Cycling