

Eric Hagee

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<https://www.github.com/ejhagee> Website: <https://ejhagee.github.io/>

Professional Summary

Data Analyst and Chemist with newly acquired skills and insatiable intellectual curiosity. Leveraging background in mathematics, applied statistics, and visualization, finding hidden gems within large sets of data, structured or raw. Seeking employment as a data scientist. Strong technical, communication, & teamwork skills. Available to relocate.

Technical Skills

Languages: Python, Java, SQL (Intermediate), R, C, VBA (Basic) | Data Visualization and Manipulation: pandas, matplotlib, numpy, scipy, D3.js, Plotly.js, Leaflet.js | Web: HTML, Javascript, Bootstrap | Databases: MySQL, SQLAlchemy | Microsoft Office: Excel, Word, Powerpoint | Other: Flask, Beautiful Soup, Git, Python API, command line

Education

Rutgers, The State University of New Jersey

Data Science Bootcamp Certificate

An Intensive 24-week course that covers Python, SQL, Tableau, R, machine learning and more.

University of Wisconsin-Madison

Master of Science (MS) Chemistry

Completed coursework in data structures, machine learning, data science, & statistics.

GPA 3.95

Rutgers, The State University of New Jersey

Bachelor of Arts (BA) Chemistry

School of Arts and Sciences (SAS) Honors Scholar.

GPA 3.95

Relevant Experience

University of Wisconsin-Madison

Madison, WI 2011-2018

Teaching Assistant and Research Assistant

- Used Numpy and Matplotlib to visualize complex data sets from laser spectroscopy
- Applied scipy to simulate data to connect theory and experiment
- Facilitated the increase in student understanding of scientific results through visualization and basic statistical analysis using Microsoft Excel
- Participated in collaborative redesign of curriculum that instituted active learning and increased course complexity while maintaining student performance

Projects

Air Travel Departures by U.S. Citizens

- Organized and cleaned public data about U.S. citizen airline travel and economic factors as a programmer in a team using Pandas
- Used Matplotlib to visualize data and compare effects of regional destination and economic trends on U.S. citizen overseas travel numbers.
- <https://github.com/ejhagee/Project-One>

History of Baseball

- Retrieved and transformed historical baseball data from an SQL database using Pandas for usage in Flask routes
- Prepared a selectable web dashboard for current MLB teams including top career hitting and pitching leaders (selectable by statistic)
- <https://github.com/ejhagee/History-of-Baseball>

Part D RX ETL

- Extracted Medicare/Medicaid prescription csv data into Pandas dataframe; scraped web tables of Medicare Part D copayment ranges, as part of programmer team
- Transformed data to be loaded into a SQL database, including calculations of where different drugs lie on the yearly Medicare copayment ranges
- https://github.com/kychien/Part_D_RX_ETL

Surfs Up!

- Extracted a SQL database with of historic Honolulu, HI weather, using SQLAlchemy, which was stored into a Pandas dataframe
- Utilized Matplotlib to visualize accessed data to simulate expected weather during a planned vacation.
- https://github.com/ejhagee/SQL-Projects/tree/master/Surfs_Up

WeatherPy

- Accessed Open Weather API using the Python Requests library
- Investigated and visualized effects of latitude on temperature, wind speed, etc. with Pandas and Matplotlib
- <https://github.com/ejhagee/Python-Data-Visualization-Projects/tree/master/WeatherPy>