Elias Weston-Farber, Data Engineer

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PROFILE

A highly experienced Data Engineer with a robust skill set in Python, R, and JavaScript, and a proven track record of leveraging data-driven solutions to drive project success. To see a few public coding examples check out my GitHub https://github.com/elias-jhsph

EMPLOYMENT HISTORY

2020 — Present

Senior Research App Developer & Data Manager, Johns Hopkins School of Public Health

Baltimore

- Led a team of 6 coders to roll out an advanced analytic dataset system, providing training, coaching, and conducting code reviews to ensure coding standards.
- Developed a system to identify, track, & email data issues across all studies, resulting in the timely publication of a major study in the New England Journal of Medicine.
- Collaborated with six study teams to build custom tools and reports, meeting their individual needs.
- Co-authored two papers on the effects of Covid-19 response measures by performing their data analysis.

2019 — 2020

Research App Developer, Johns Hopkins School of Public Health

Baltimore

- Built a system to store the growing administrative data associated with 30+ METRC studies, utilizing corporate APIs and a custom cross-platform Electron Application (NodeJS).
- Designed and implemented a system capable of automating the assessment of all the department's ongoing studies utilizing three separate R packages built from scratch hosted on GitHub.

2018 — 2019

Backend Developer and Data Scientist, Civicly Envolved

Chicago

- Managed a team of interns, teaching them how to interface with partner APIs and gather, clean, and categorize important civic data independently, including geographic information.
- Researched and implemented supervised and unsupervised machine learning techniques to analyze unstructured data.

EDUCATION

2018

Bachelor of Science in Environmental Science & Geography and Bachelor of Arts in Political Science, University of Maryland Baltimore County

Baltimore

Notable Courses: Data Structures, Structures & Interpretation of Programs, Principles of Programming

GPA: 3.4/4.0

TECHNICAL SKILLS

- Languages: Python, R, JavaScript (Electron Framework)
- Libraries/Frameworks: Pytorch, Pandas, Flask, Selenium, Scrapy, Plotly, Mailjet, Twilio, Shapely, Geocoder, Shiny, Tidyverse, TidyText, GGplot, Knitr, KableExtra, Httr, TopicModels, WordCloud
- Technologies: Docker, GitHub CI, Google Cloud Platform, ArcGIS, QGIS, Tableau
- Database Management: Firebase, Firestore, SQL

PERSONAL CODING PROJECTS

- RSmartsheet: Developed an R package to interface with Smartsheet. Used by a small team at the Oregon Health Authority.
- SearchIt: Designed an application for conducting systematic web searches from a list of search terms. Used by Civicly Envolved to gather candidate data.
- Jarvis: Created a packaged voice assistant Mac application. Demonstrates my experience building integrating ChatGPT into standalone python apps.

NOTABLE COMMITTEE WORK:

At the direction of Dean MacKenzie of the Johns Hopkins School of Public Health, I served as a highly influential member of the Staff Assembly Planning Committee. I wrote large sections of the Bylaws and created the infrastructure to run the Nomination and Election Process.