Elias Weston-Farber, Data Engineer / Data Manager

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PROFILE

Experienced Data Engineer with management experience looking to transition into Progressive Tech.

To see a few public coding examples check out my GitHub https://github.com/elias-jhsph

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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 (a GCP project) 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 using Selenium, Scrapy, Plotly, Shiny, GGplot, Knitr, KableExtra, TopicModels, WordCloud.
- 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 a system capable of automating the assessment of all METRC studies utilizing three separate custom R packages hosted on GitHub, running on the GCP using a custom Python+R Docker Image.

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 using Cloud Firestore, Cloud Functions, and the Google App Engine.
- Researched and implemented supervised and unsupervised machine learning techniques to analyze unstructured data using Pytorch.

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, Looker Studio, NGP Van, Google Sheets API

Database Management: Firebase, Firestore, SQL (BigQuery)

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.

PROGRESSIVE TECH EXPERIENCE

Generation Data Training: Experience with Voter File Data Visualization, NGP Van admin, BigQuery, Looker Studio, and Campaign Strategy

CTCL Civic Data Fellowship: Collected and cleaned ballot data for the 2018 midterms and learned about the idiosyncrasies of many state, county, and city level elections