Elias Weston-Farber

Data Engineer / Data Manager

Location: Baltimore
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Accomplished Data Engineer and Manager with a proven track record in developing sophisticated data systems and enhancing data operations using advanced cloud technologies. Expert in deploying scalable systems, automating data workflows, and leading development teams to drive innovation and efficiency in academic and research environments.

GitHub: https://github.com/elias-jhsph **Portfolio:** https://eliastechlabs.com

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Work Experience

Senior Cloud Engineer & Data Manager

Johns Hopkins School of Public Health, Baltimore | 2023 – Present

- Engineered and implemented an automated system for DSMB Report Generation, leveraging advanced task queuing mechanisms to increase reporting efficiency and reliability.
- Led the technical split of the METRC Reports into two specialized systems, improving system responsiveness and user engagement through the implementation of HTMX and WebSockets for dynamic content updates and real-time interactions.
- Enhanced data integration and management capabilities using Firebase, streamlining operations and improving data synchronization across distributed environments.

Senior Research App Developer & Data Manager

Johns Hopkins School of Public Health, Baltimore | 2020 – 2023

- Managed a team of 6 developers to develop a comprehensive data analytics platform on GCP, significantly enhancing data processing capabilities and user satisfaction.
- Designed and executed a system for real-time data issue tracking and notifications, facilitating rapid response measures that supported a major publication.
- Developed tailored analytical tools and reporting solutions for research teams, integrating technologies such as Selenium, Scrapy, and Plotly.

Research App Developer

Johns Hopkins School of Public Health, Baltimore | 2019 – 2020

- Developed a robust data storage solution for managing administrative data across 30+ METRC studies, leveraging custom APIs and a cross-platform Electron application.
- Automated the assessment and reporting for METRC studies using custom R packages and a Python+R Docker environment, enhancing operational efficiencies.

Backend Developer and Data Scientist

Civicly Envolved, Chicago | 2018 – 2019

- Led a team of interns in designing and implementing API-based data integration and management solutions, including geospatial data analysis using Google Cloud technologies.

Education

University of Maryland Baltimore County, Baltimore | 2018
Bachelor of Science in Environmental Science & Geography
Bachelor of Arts in Political Science

Technical Skills

- **Languages:** Python, R, JavaScript, SQL
- **Frameworks/Libraries:** Flask, Node.js, Pytorch, Pandas, Tidyverse, Shiny
- **Technologies:** Docker, AWS, GCP, GitHub Actions, HTMX, WebSockets, Firebase
- **Data Analysis Tools:** Tableau, ArcGIS, QGIS

Personal Coding Projects

- **RSmartsheet:** Developed an R package to interface with Smartsheet. Used by health authorities to streamline project management.
- **SearchIt:** Designed an application for conducting systematic web searches, utilized by NGOs to gather and analyze public data.
- **Jarvis:** Created a packaged voice assistant application using OpenAI's GPT model, demonstrating capabilities in integrating AI into user-friendly applications.