Jessica Hicks

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Technical Skills

Languages: R (tidyverse, ggplot, DT), Python (matplotlib, numpy, Jupyter), SQL (SQLite & MySQL), HTML/CSS, JavaScript, Shell (BASH)

Developer Tools: Git/GitHub, VSCode, SSH, Agile Methodology

Technologies/Frameworks: Tableau, RShiny, Excel (and VBA), React, WordPress, GIS

Relevant Skills: data visualization, ETL, research & modeling, applied statistics, quantitative analysis

Experience

Data Analytics Intern   June 2021 – August 2021
Environmental Data Initiative   *Remote*

- Curated sets of research data (using R) for use in open-source online platforms (reaching 50+ researchers), which included performing ETL tasks, data analysis, data organization, data cleaning, and metadata wrangling
- Created dashboards using RShiny to aid in data analysis, accessibility, and data visualization
- Experience applying scripts and tools to EPA and USGS water datasets to optimize large-scale watershed analyses

Website Design Consultant   May 2021 – August 2021
The Fun Store, funstorefl.com   *Remote*

- Performed site redesign for family beach rental business, resulting in a 10% revenue increase in the first month of implementation
- Implemented eCommerce interface using WordPress and PHP to introduce online ordering and bookkeeping
- Optimized site for different devices using CSS media queries and flexbox

Research Assistant   May 2020 – August 2021
Todd-Brown Lab, Environmental Engineering Department, UF   *Gainesville, Fl*

- Conducted independent and collaborative projects using R (computing language) to analyze, visualize, and manage computational carbon stock models
- Performed statistical analyses to determine model uncertainties through implementation of a sensitivity analysis, resulting in unique model insights
- Developed graphics and presentations to inform professionals and present model developments
- Performed code refactoring, documentation, and optimization, including implementation of parallel processing tools to speed up run times sixfold

Projects

Green Riders Infographic | *Personal Project, Tableau*   2021

- Infographic to visualize data from a transcontinental volunteering bike trip I was a part of in 2019; utilizes Tableau charts, maps, filters, and custom graphics
- tableau.com/app/profile/jessica4526/viz/GreenRidersInfographic/GR_Infographic4

DataRetrieval Dashboard | *R, GitHub LFS, RShiny, EPA Datasets*   2021

- Created a dashboard using RShiny to view and interact with US EPA data, currently used by 5+ faculty members at Baylor University for environmental research
- Dashboard features include: data filtering and subsetting, data visualization (plots, summary statistics, mapping), and data download/extract

Education

University of Florida   Aug. 2017 – May 2021
Bachelor of Science in Environmental Engineering, Cum Laude   *GPA: 3.7*

Relevant Coursework: Programming for Engineers, Eng. Statistics, Professional Communication
Awards/Recognition: Dean's list, Florida Bright Futures Scholarship, officer / leadership for 3 clubs

Interests

- biking (MTB, touring), climbing, reading, skiing, sustainability, music, cave exploration