

Jessica Hicks

Lakewood, CO 📍 205-789-0837

✉ jessicah3334@gmail.com

🌐 [linkedin.com/in/jessicah3334](https://www.linkedin.com/in/jessicah3334)

🐙 github.com/jessicah3334

Technical Skills

Languages: R, Python, JavaScript, HTML5/CSS, SQL (SQLite and MySQL), PHP, Shell (BASH), XML

Developer Tools: Git/GitHub, VS Code, SSH, Agile Methodology

Technologies/Frameworks: React, JSX, NodeJS, Tableau, WordPress, RStudio, Excel, GIS

Relevant Skills: code optimization, data visualization, ETL, quantitative analysis, code maintenance and troubleshooting

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
- Conducted peer code reviews and bug fixes using Git / GitHub
- Experience working with large datasets to develop data upload and analysis pipelines, performing API data extraction using CSV and XML

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 front end for different devices using CSS media queries and flexbox

Programming / Research Assistant

May 2020 – August 2021

Todd-Brown Lab, Environmental Engineering Department, UF

Gainesville, FL

- Performed data analysis and technical support using R, conducted independent and collaborative coding projects
- Experience writing clean, maintainable code, performing code documentation, optimization, and refactoring to enhance model functionality and stability
- Performed statistical analyses to determine model uncertainties through implementation of a sensitivity analysis, which included implementation of parallel processing tools to speed up run times sixfold
- Developed graphics and presentations to inform professionals and present model developments

Projects

Web Scraping: Wikipedia Article Crawler and Weather Bot | *Python (Requests, BeautifulSoup)*

2020

- Developed a tool to recommend related Wikipedia articles through recursive web crawling and a tool to download the daily weather forecast and send a text message, both using web scraping

Green Riders Infographic | *Personal Project, Tableau (BI data visualization)*

2021

- Infographic to visualize data from a transcontinental volunteer 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

Website Design | *Python (Flask), HTML/CSS, Git*

2020

Personal Portfolio, jessicah3334.github.io

- Developed static Portfolio website using Flask (Python), GitHub pages, and CSS / HTML / Bootstrap
- Experience developing intuitive, minimalistic UI

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