Jessica Hicks

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EDUCATION

BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING, Cum Laude May 2021
University of Florida, Gainesville, FL GPA: 3.7
Relevant coursework: Programming for Env. Engineers, Engineering Statistics, Professional Communication, Hydrology, Hydraulics, Environmental Planning

TECHNICAL SKILLS AND CERTIFICATIONS

- R (tidyverse, ggplot, shiny, DT)
- Python (requests, numpy, Jupyter)
- GitHub, Markdown
- Web Development (HTML, React, SQL, XML, JS, Wordpress)
- Hydrologic Modeling (HEC-HMS, EPA-Net)
- ESRI GIS Software (ArcMap)
- AutoCAD
- Fundamentals of Engineering (FE)

EXPERIENCE

INTERN/FELLOW June 2021 - present
Environmental Data Initiative
- Curated sets of lake and stream data for use in open-source online platforms, which included performing ETL tasks, data analysis, data organization, data review, and metadata wrangling
- Created dashboards using RShiny for data accessibility, analysis, and field planning
- Experience applying scripts and tools to EPA LakeCat and StreamCat datasets to optimize large-scale watershed analyses

UNDERGRADUATE RESEARCH ASSISTANT May 2020 – May 2021
Todd-Brown Lab, Environmental Engineering Department, UF
- 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
- Performed code refactoring, documentation, and optimization, including implementation of parallel processing tools to speed up run times sixfold

PROJECTS

WEBSITE DEVELOPMENT Summer 2021
The Fun Store, http://funstorefl.com/
- Performed site redesign for my dad's business site
- Used PHP, WordPress, and CSS to update site look and functionality and to increase business credibility
- Implemented online eCommerce tools to increase business revenue and accessibility
- Optimized site for mobile using CSS media queries and flexbox

RECIPE HELPER Summer 2021
Personal Project
- Created a React application for users to easily search, view, and save recipes from multiple sites
- Scraping functionality implemented using Python requests
- Styling with tailwind CSS and JavaScript
- Check back soon for site link