Daniel Willett

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Portfolio: https://danwillett.github.io/portfolio/

Summary Statement

I am a recent graduate of UC Berkeley with over three years of research experience applying data acquisition, management, and analytics in Matlab, Python, and JavaScript programming languages to a wide array of Earth System Science fields. I completed four research projects including a capstone honors thesis during my senior year, all involving carbon storage quantification using GIS and remote sensing technologies. Following graduation, I am currently developing software engineering skills through a Full Stack Web Development Program.

Education

University of California, Berkeley
Molecular Environmental Biology, BS

Berkeley Extension Coding Bootcamp
Full Stack Web Development Program
Expected Graduation: April 14th, 2023

Technical Skills

Frontend: HTML5, CSS, JQuery, Javascript, Bootstrap
Backend: MySQL, MongoDB, Express, ReactJS, Node, Python, Flask, Heroku, Webpack
Research: MATLAB, QGIS, ArcGIS, & Google Earth Engine

Bootcamp Coding Projects

OutdoorsyISH| Repo | Deployed   Generated Map & Fetched Park Data

- ➢ Enables users to search for their next National Park Service adventure
- ➢ This project allows users to search for national parks by state and possible park activities. Users view parks on a map and save favorites to local storage.
- ➢ Tools/Languages: Javascript, HTML, CSS, Foundation, NPS API, & Open Layers API

Restaurant Roulette| Repo | Deployed   Frontend & Backend Development

➢ Randomly selects a restaurant to dine at for users based on user-preferences
➢ Users create an account and set location preferences. Users can then add different types of cuisines to the search pool. The application will then randomly present one restaurant.
➢ Tools/Languages: Node, Express, MySQL, Sequelize, Javascript, HTML, CSS, Bootstrap, Yelp Fusion API

Data Analytics & Research

Silver Lab, UC Berkeley – Soil Scientist
June 2020 – October 2022

➢ Proposed and received grant funding through UC Berkeley's College of Natural Resources in 2020 to assess the effects of soil amendments on carbon and nitrogen content in grassland soils.

➢ Was awarded fellowship funding through UC Berkeley's SURF program the summer of 2021 to complete an honors thesis modeling changes in spectral properties of amended grasslands using GIS and remote sensing methods. Completed the thesis in May 2022 and presented in the Honors Symposium.

➢ Operated gas chromatography and spectrometry instruments as a lab technician

COAST Lab, UC Santa Barbara – Oceanographic Data Analyst
May 2019 – August 2019

➢ Analyzed historical data from buoys in the Santa Barbara Channel using MATLAB
➢ Modeled relationships between wind and wave generation in the channel and traced wave motion towards the coastline

Awards

UC Berkeley College of Natural Resources

➢ **Kenneth L. Babcock Prize** (May 2022) "Excellence in the Field of Environmental Science"

References

Dr. Whendee Silver | Principal Investigator of the Silver Lab | wsilver@berkeley.edu
Dr. Andrew Jones | Post-Doc in the Silver Lab | andrew.jones2@uqconnect.edu.au
Dr. Nick Nidzieko | Principal Investigator of the COAST Lab | nidzieko@ucsb.edu