**Emily Maynard**

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**Summary**

Data analyst with skills in Python, SQL, R, and Javascript founded while achieving a certificate from Columbia University’s data analytics bootcamp. A recent project used Javascript and a Mapbox API to plot earthquake data on a visually appealing map to demonstrate recent earthquake magnitude and proximity to tectonic plates. Works well with teams and individually as an organized coder who collaborates with classmates to debug code, refactoring for efficiency. Motivated to succeed by accomplishing challenging tasks while coding, then creating attractive visualizations. A Master’s degree in environmental policy lays the groundwork for using data to combat the impending ecological crisis. Goal is to become a data analyst to learn a technical skill that uses math and science and can lead to impacts on environmental protection. A long-term goal is to become a data scientist, potentially working on climate modeling.

**Technical Skills**

**Tools:** Excel, VBA, Python, Pandas, ETL, SQL, HTML/CSS, Javascript, Tableau, R, machine learning

**Databases:** SQL, MongoDB

**Projects**

**World Weather Analysis|**[**https://github.com/emaynard10/World\_Weather\_Analysis**](https://github.com/emaynard10/World_Weather_Analysis)

**Coded in Python to make API calls to OpenWeather and GoogleMaps; generated random coordinates and found the closest cities. Then used weather data for those cities, set criteria for the weather to determine ideal vacation spots. Used GoogleMaps to list hotel names and map a vacation itinerary based on the weather criteria input.**

Filtered weather data and chose four cities that met those criteria, then created a vacation itinerary with names of hotels in those four cities

Tools: Python, Pandas, Jupyter Notebooks, GoogleMaps and OpenWeather APIs

**Ridesharing Analysis | https://github.com/emaynard10/PyBer\_Analysis**

**Utilized Matplotlib to visualize a data analysis on ridesharing data in three unique city types. Generated average fares and totals for each city type and displayed those in Pandas Dataframes then plotted various charts to better visualize the data.**

Compared data between city types and then calculated some statistics and presented the data in easy-to-read visuals.

Tools: Python, Pandas, Jupyter Notebooks, Matplotlib

**UFOs | https://github.com/emaynard10/UFOs**

**Used JavaScript to build tables and filter those tables of UFO sightings; included a button and date input to filter data based on a certain date. Added a CSS style to make an appealing site displaying the table and filtered options**

Conveyed interactive analysis on a visually appealing web page where visitors can filter UFO sightings based on date, city, state, country, or shape

Tools: JavaScript, html/CSS, VS Code

**Experience**

**Field Ecologist           2022 – Present**

**Independence Pass Foundation           Aspen, CO**

* Gathered data on phenology studies to determine the ecological succession and success of species in the era of climate change
* Collected data on visitor use, beavers, and pika partnering with the Colorado Pika Project. Plans to automate analysis of data once it is all collected at the end of the summer. Determined how these studies may play a role for the company in the face of wildfire and other climate related ecologic crises
* Restored ecological integrity with transfer of lands to wilderness, trail and road cut erosion projects, and invasive weed mitigation
* Conducted three studies and finished weekly projects over the course of three months

**Aspen Mountain Ski Patrol, Snow and Avalanche Specialist 2014-Present**

**Aspen Skiing Company Aspen, CO**

**Snow and Avalanche Mitigation Coordinator 2016-present**

* Amassed weather data and debugged issues with weather forms, equipment, and data loggers resulting in a department wide daily weather report. Attended Campbell Scientific data logger class.
* Analyzed avalanche incidents in detailed reports using weather data, and charts for visualizations, initiated fast response to accidents and problems
* Oversaw explosives handling, use, and inventory, maintained permits and certifications, delegated tasks and led daily projects
* Conceptualized a training program in avalanche rescue and explosives use for 35 employees
* Established myself as a leader on a team of seasoned veterans with innate attention to detail, technical rescue skills. End of season reviews all exceeded expectations for 8 years, leadership qualities earned praise from a boss: “If I could hire 30 of Emily, I would.”

**Lift Evacuation Technician**  **2016-2017**

* Maintained lift evacuation equipment, training, rescue operations, and documents
* Executed lift evacuations and coordinated personnel and departments as necessary

**Basic Ski Patroller 2014-2016**

* Learned medical and rescue skills and procedures including rope work, toboggan handling, injury documentation, basic rescue skills, and assisted on avalanche routes

**Education**

**Boot Camp Certificate, Data Analytics, Columbia University**, **New York** September 2022

**M.A., Environmental Policy/Management, University of Denver, CO** November 2020

**B.A., University of Montana, Missoula, MT** May 2010