Joel Silverman

Data Scientist

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# SUMMARY STATEMENT

Innately curious. Analytical. Dependable. Seeking a position using machine learning and exploratory data analysis to solve real-world problems in a collaborative environment. Domain knowledge in biology,, remote sensing,, and public service.

# TECHNICAL SKILLS

* Proficient in Python (SciKitLearn, Pandas, Numpy). Skilled in statistical models for prediction and inference. Experienced in data management using MS Excel and Access. Familiar with mapping and geo-spatial analysis in ArcGIS.
* Interdisciplinary teams, problem solving, and project management.

# PROFESSIONAL EXPERIENCE

## Data Scientist in Training *- General Assembly, Washington D.C. (Remote)*

November 2021 - March 2022

* Covered statistical foundations for a variety of modeling techniques and gained experience implementing models in Python programming language..
* Project 1: California SAT/ACT Performance & Participation / Exploratory Data Analysis
  + Cleaned, analyzed, and created data visualizations to find patterns
* Project 2: Predicting Prices & High Value “Fixes” / Regression Models
  + Predicted home sale prices with the best model explaining 86% of the variability in price. Also identified home features that related to higher sale price.
* Project 3: Subreddit Classification / Natural Language Processing & Classifiers
  + Classified language in 2 Reddit.com subreddits with 90% accuracy. Tools utilized include: Pushshift API, Count Vectorizer, TF-IDF, Logistic and XX Classifiers.

## Resource Specialist *- US Forest Service, Pinecrest, CA*

September 2014 - November 2021

* Established an online permit system for visitors, saving approx. 1000+ staff hours annually.
* Maintained, analyzed, and reported visitor information from a database of 30,000+ records.
* Supervised 4 to 8 staff each year.
* Wrote successful requests for funds, and completed all grant projects on time and within budget.
* Helped coordinate management actions across 1/4 million acres of public land.

## Resource Specialist - *MROSD*, *Los Altos, CA*

July 2010 - July 2014

* Managed work projects, across 15+ park units in the South Bay area.
* Created & maintained tabular and geographic records for numerous projects.
* Developed several biological studies and reviewed 150+ research proposals.

## Biological Scientist - *National Park Service, Springdale, UT*

May 2008 - July 2010

* Lead the collection, analysis, and reporting of data for Fire Management at Zion and Bryce Canyon National Park.
* Coordinated with universities and other agencies on several large-scale research projects.

# EDUCATION

## Data Science Intensive Certificate - *General Assembly, Washington D.C (Remote)*

* Completion Expected: March 2022

## Master’s of Science (Forest Sciences) - *Colorado State University,* Fort Collins, CO

* Thesis: modeled species distributions using remote-sensing data. Major: Forest Sciences.
* Spatial Statistics, Statistics (Data Design and Analysis), GIS Analysis.

## Bachelor’s of Arts - *The Evergreen State College,* Olympia, WA

* Human & Cultural Geography, Study Abroad (Central America).
* Plant Biology, Natural Resource Management.

# SELECTED AWARDS

**USFS & NPS Certificates of Appreciation**

**NASA Graduate Fellowship**

**Colorado State University Educational Event Award**

# PERSONAL INTERESTS

**Digital Photography**

**Trail running (completed two trail marathons)**

**Backpacking**