Robert Blake

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Education: University of Mary Washington
B.S Computer Science | Data Science Minor

Programming Experience

Analysis

- Exploratory Data Analysis on Health, Cooking, and Time Use Study using R + GGplot and Python to parse and organize multiple large datasets.
- Simulated invasive grass species to observe niche interactions in varying configurations using R.

Visualization

- Network Data visualization using R + iGraph to visualize and analyze flavor compounds in food, as well as ingredient composition, and geographic region.
- Population Simulation dashboard for parameter exploration using R + Shiny
- Meteor M2 Satellite Data Retrieval and Processing to view imaging from satellite pass over Earth.

Development

- Created Coffee Recommendation web app with attached database using Python + Flask, html/css, postgresql.
- Created Predictive Weather web app using DarkSky APIs, Python, html/css, and Flask.
- Programmed Naive Bayes Classifier Algorithm to predict survivors in Titanic Data
- Recreated MNIST number classifier using Python + Tensorflow

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Work Experience

Public Computing Manager Student Aide
(April 2015 - November 2016)
University of Mary Washington

- Setup and managed automated software distribution server for macOS (Munki).
- Distributed software and scripts to Windows labs using Dell KACE.
- Provided computer technical support & hardware replacement.
- Distributed scripts to macOS using Remote Desktop.
- Imaged campus computers using Ghost.
- General System Administration Experience (macOS and Windows)

Intern at Ward ENG Support Services
(September 2017 - December 2017)
Fredericksburg, VA

- Hardware replacement
- Computer Imaging & Automation Scripting
- Windows Group Policy Management
- Research Software Tools

Technical Skills

Python	R	Bash
Pandas	GGplot	Linux, Windows, MacOS
Numpy + Scipy	Shiny	
Scikit-learn	Github	
Matplotlib, Bokeh, Seaborn	Java	
iGraph	C++	