William Gagne-Maynard

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PROFESSIONAL EXPERIENCE

Data Specialist — Mar. 2018 - Current

TINYpulse

- Developed predictive statistical models in Python for estimating customer churn and lead scoring.
- Analyzed customer product usage data to guide product development and set KPIs.
- Created interactive dashboards using RShiny, Tableau and SQL to track and measure internal product KPIs.
- Supported launch of CheersForPeers.com, a Freemium version of our product, by developing and reporting on key product success metrics and user profiles.

Data Analyst — Mar. 2017 – Mar. 2018

Geospatial Team, Institute for Health Metrics

- Analyzed statistical models for estimating vaccine coverage on a 5x5km grid scale to inform policy maker decisions.
- Collaboratively developed ETL workflows using SQL and R to load and clean large datasets for input into our models.
- Created data visualization tools and dashboards using Python and R to validate both model inputs and outputs.
- Analyzed our data using descriptive statistics and clustering tools to identify trends and outliers.

Research Assistant — Sep. 2013 – Oct. 2016

School of Oceanography, University of Washington

- Cleaned, filtered and merged large geophysical datasets from multiple shareholders using Python and SQL.
- Generated maps and data visualizations for public dissemination.
- Performed statistical analyses on environmental time series data using Python and R statistical packages.

EDUCATION

University of Washington, Seattle, WA

M.S. in Chemical Oceanography, Sep. 2013 – Oct. 2016 GPA: 3.6

- Certificate in Advanced Data Science
- Graduate level coursework: Database Systems, Data Visualization, Software Engineering for Data Scientists, Geospatial Analysis, Geospatial Statistics

Carleton College, Northfield, MN

B.A. Chemistry, June 2013. *Cum Laude*

- Coursework: Data Structures, Environmental Economics, Environmental Modeling

PROJECTS

Metagenome Explorer: http://borenstein-lab.github.io/burrito/

Developed an interactive visualization using D3.js and JavaScript for the exploration of metagenomic data sets. This tool allows researchers to interactively explore nested data and the relationships between them.

eRivers: *https://github.com/wgagne-maynard/eRivers*

Created a Python toolkit for reproducible data cleaning, analysis, and visualization of high-resolution and high-dimensional aquatic time series data. This tool allows researchers to input their own data and parameters and move beyond the spreadsheet model for analyzing these growing datasets.

PROGRAMMING AND SOFTWARE EXPERIENCE

Python – 5+ years (numpy / Pandas / scikit-learn)

R - 4 years (data.table / Rshiny / leaflet)

SQL – 3 years (MySQL / database querying)

Git – 3 years (version control / remote collaboration)

Unix – 3 years (shell scripts)

Tableau – 3 years (data visualization / exploratory data analysis / dashboards)