John Wachter

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Summary of Qualifications

- Bilingual data analyst with over four years of programming, data analysis, and data visualization experience.
- Strategic thinker with expertise across the entire data science stack, from database development to machine learning, visualization, and communication of findings.
- Current graduate student at the University of Washington specializing in data science.
- Skills: Data Science, Machine Learning, Programming, Statistics, Data Analysis & Visualization, GIS
- Tools: **Python** (pandas, numpy, scikit-learn, scipy, NLTK, matplotlib, Beautiful Soup, seaborn), **R** (tidyverse, igraph, MASS, Metrics, psych), **Tableau** (Certified in Tableau Visual Analytics through the University of Washington), **SQL**, **Excel** (pivot tables, vlookup, macros, visual basic), **ArcGIS**

Experience

Data Analyst | Contra Corriente | September 2020 – Present
Gather, clean, analyze, and visualize data to support an investigative journalism outfit in Honduras
- Scrape and clean hundreds of thousands of web-based observations of COVID-19 data using Python, R, and TabulaPDF to turn digital pdfs into interactive data visualizations using Tableau

Consultant, Finance & Operations | Seattle Foundation | June 2020 – Present
Automate and enhance efficiency of business processes
- Automate grant reconciliation reporting using Python, saving several hours of manual work each week
- Build a data reporting pipeline using Python and Excel that connects several disparate systems to update outreach lists, significantly reducing the errors involved in the manual update and saving dozens of hours of manual work each month

Research & Strategy Analyst | Seattle International Foundation | May 2016 – Present
Ground initiatives in research and data, providing information and insight to guide strategy
- Publish research and data-driven analyses on Central American issues, including migration, foreign aid, Donor-Grantee patterns, and governance issues. Publications include the Wilson Center, a public opinion institute in El Salvador, the Foundation Center, and our organization's website
- Present research and analysis on strategic issues and nuanced business questions to senior leadership and members of the board of directors
- Designed a dashboard using Tableau and Excel to connect survivors of domestic violence in Guatemala to economic opportunities. Worked in collaboration with the Inter-American Development Bank and Guatemalan Attorney General's office
- Designed and maintained financial reporting tools, dashboards, and data pipelines using Tableau, Financial Edge, Excel, Visual Basic, and QuickBooks enabling complex donor and management reporting

Database Developer | iVoted | May 2020 – October 2020
Designed and populated a proof-of-concept SQL database for a civic engagement & voting participation platform
- Designed entity-relationship diagram and built database in Microsoft SQL Server Management Studio
- Scraped and cleaned Washington State elections data using R, Python, and ParseHub, and populated SQL database using Python's pyodbc library

Education

Master of Science in Information Management | University of Washington | Expected August 2021
- 3.9 GPA
- Specializing in Data Science. Coursework includes machine learning & econometrics, data science, relational databases, and statistical analysis of social networks.
- Data science projects:
  - COVID-19 Policy Sentiment Analysis: Used python and command line tools to scrape over 100 million tweets related to COVID-19, perform topic modeling, and analyze the sentiment of each topic.
  - Measuring Strong and Weak Polarization in the U.S. Senate through Statistical Analysis of Co-sponsorship Networks: Built Latent Position Cluster and Exponential Random Graph models to measure partisan polarization

Bachelor of Arts in Sustainable Development and Urban Planning | Western Washington University | Dec 2014
- Magna Cum Laude. Minor in Economics. President's Scholarship recipient