

CHLOE M. MAYNE

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TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, VBA

Data Manipulation & Visualization:

pandas, numpy, matplotlib, Tableau, D3.js

Database: MySQL, SQLite, MongoDB

Other: Git, Flask, command line, HTML, CSS

Software: ArcGIS Desktop, ArcGIS Pro, ArcGIS Online

PROJECTS

Department of Interior (DOI) Economic Report Redesign

Mar 2019 – Present

- Improved data analysis process for Department of Interior's Annual Economic Report using ETL.
- Created SQLite database to transition data input and querying process from excel to SQL.
- Automated report process and created interactive visuals of analysis results using Python and Tableau.

DOI Reorganization Analysis

Sep 2018

- Created Tableau dashboard tool to assist leadership with decision-making on regional headquarters locations.
- Pulled data from Google Maps API to assemble coordinates for dataset of over 1,000 locations.
- Utilized Python, pandas and GIS to join locations with data on regions, metropolitan statistical areas (MSAs), schools, airports and cost of living. Web scraped 2018 rankings of MSAs using BeautifulSoup.
- Presented findings and Tableau visualizations to Departmental leadership.

PROFESSIONAL EXPERIENCE

Policy Analyst, Office of Policy Analysis, U.S. Department of Interior, Washington, DC

Feb 2017 – Present

- Provides data, research and recommendations to Departmental leadership on operational issues and business challenges facing the Department. Collaborates on an interdisciplinary team to conduct analyses.
- Collects, cleans and analyzes data using python. Results inform policy/economic analyses and program reviews.
- Creates visually impactful dashboards and graphics in Tableau and ArcGIS to convey metrics and insights.
- Leads office budgeting process including communicating with key internal and external partners. Automated office budget report using Python and VBA – resulted in budget surplus of \$50k in FY18.

Program Analyst, U.S. Department of Interior, Washington, DC

Mar – Jun 2018

- Improved GIS and data analysis capabilities during three-month detail to the Office of Emergency Management.
- Developed Tableau dashboards to display disaster response and recovery operations during and after disaster events affecting Department of Interior assets and employees.
- Standardized emergency management data collection, including 15 metrics to be collected during disasters.

GIS Analyst, Office of Surface Mining Reclamation and Enforcement, Washington, DC

Oct 2015 – Jan 2017

- Analyzed coal mining impacts on streams using GIS, aerial imagery and remote sensing. Presented visuals and results at the 2016 ARRI Mined Land Reforestation Conference.
- Contributed original maps, figures and text to the Stream Protection Rule Environmental Impact Statement.
- Conceptualized and executed research project to determine populations within a mile of an abandoned mine. Utilized census population data and abandoned mine locations for geospatial analysis.

EDUCATION

The George Washington University, GW Data Analytics Certificate

Feb 2019

Intensive 24-week data analytics program.

Pitzer College, A Member of the Claremont Colleges, Claremont, CA

May 2015

Bachelor of Arts, Environmental Science (Honors), Minor in Geology, 3.54 GPA

TRAININGS

Tableau – Desktop II: Intermediate, Washington, DC

Jun 2018

Intro to Data Analysis, Codecademy, Online Course, 1/30 – 4/10/18

Jan – Apr 2018

Tableau – Desktop I: Fundamentals, Washington, DC

Nov 2017