

# **WILL WRIGHT**

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## **Summary**

Data-driven problem solver working as a data analyst. Have collected, analyzed, and visualized interactive web maps in Streamlit, GitHub pages, and Google Colab using Python's Folium, PyDeck, and GeoPandas libraries, as well as JavaScript's Mapbox GL JS and Deck GL libraries. Scraped, geocoded, analyzed, and visualized residential real estate sales in metro Atlanta counties using Python's Seleium and Pandas libraries. I have worked in various analytical roles but have thrived most when working with quantitative datasets which can be visualized in a dashboard or mapping environment.

Have previously worked as a commercial real estate appraiser for a small firm in Hall County, a business analyst for an electric cooperative in Jackson County, and a business analyst for a small hiking boutique in Portland, Oregon. Helped streamline the CRM and workflows through Smartsheet platform. Created various data dashboards for hiking tour logistics. As a research analyst for Johnson Economics, I assisted senior staff with gathering, analyzing, and visualizing data of multi-family development projects around Portland, Oregon.

## **Technical Skills**

**Tools:** JupyterLab, VSCode, JavaScript, HTML, CSS, Python, Pandas, GeoPandas, Streamlit, Folium, Pydeck, Mapbox GL JS, Deck GL, scikit-learn, Excel VBA, QGIS, ArcGIS, Esri Business Analyst Online

**Databases:** PostgreSQL, MongoDB

## **Projects**

### **Forsyth County Housing Dashboard | <https://forsyth-housing.streamlit.app/>**

- Scraped and geocoded over 32,000 home sales in the metro Atlanta county of Forsyth from 2018 to early 2023
- Utilized Python framework Streamlit, as well as custom web styling, to build fully interactive and 3D geospatial dashboard showing trends in home sale prices over time
- Incorporated sidebar UI components to allow filtering of data based on year sold, year built, and neighborhood of sale

### **Demographic & Infrastructure Map | <https://github.com/svnresearch/general>**

- Lead research initiative and used automation in Python to collect, analyze, and visualize geospatial data using Jupyter notebook and libraries such as Folium, Pandas, Geopandas, and GeoJSON formatting
- Generated interactive, web-based custom maps visualizing data on demographics, DOT traffic and infrastructure projects, geocoded public records data, and school ratings

- Deployed visualizations using Github pages

### **Python API Challenge | <https://github.com/wwright21/python-api-challenge>**

- Created Python script to visualize weather of a randomly-generated set of 500+ international cities
- Generated a series of scatter plots to visualize relationships of various weather phenomena to the distance of each city from the equator
- Used Python and Matplotlib library for the visualizations

### **Pandas Challenge | <https://github.com/wwright21/pandas-challenge>**

- Created high-level snapshot using key metrics of a fictitious school district in Python and Jupyter notebooks
- Summarized academic performance by district, school, and student within a series of Dataframes

## **Experience**

### **Sr. Data Analyst | August 2023 – Present** Atlanta Regional Commission

- Creating automated pipelines of data to frontend web visualizations and dashboards using a combination of Python, JavaScript, HTML, CSS.
- Contributing regularly to Atlanta Regional's 33N blog on matters relating to housing affordability, migration, demographic shifts, workforce, and others
- Providing actionable and relevant analysis to local policy makers on community-driven topics

### **Commercial Real Estate Appraiser | July 2018 – August 2023** J. Lawson & Associates

- Providing appraisal expertise for industrial, retail, and office properties located predominantly in Forsyth, Hall, Gwinnett, and Barrow counties
- Communicating regularly with local jurisdictions and professionals in real estate and finance to assist in performing market research
- Performing regular site visits to subject properties as part of the appraisal process

### **Market Analyst (Part-Time) | May 2015 – Present** SVN Hokayem Co.

- Providing analytical research and mapping support to a local commercial real estate company
- Leveraging Python programming for GIS applications, as well as Jupyter notebooks and Selenium for web automation geocoding
- Deploying custom, presentation-ready visualizations to GitHub pages

### **Business Intelligence Analyst | Sept. 2017 – April 2018** Jackson EMC

- Aided with key performance indicator (KPI) tracking and benchmarking
- Created dashboards in web-based solution for departments across the cooperative
- Developed automated Excel workflow processes for greater efficiencies

### **Policy Analyst | Oct. 2016 – Sept. 2017** Western Economic Services (Portland, OR)

- Provided GIS analysis of demographic data for fair housing assessments around the US
- Analyzed factors that affect fair housing choices among residents
- Wrote Python scripts for map-building automation

### **Assistant Planner Oct. 2015 – June 2016** Mackenzie (Portland, OR)

- Prepared GIS maps and other research support for senior staff

## **Education**

### **Full Stack Development with MERN:** Massachusetts Institute of Technology

[*expected completion:* February 2024]

A 32-week software development program focused on the popular MERN stack in web development: MongoDB, Express, React, and Node.js. The course covers the basics of JavaScript, HTML, CSS, as well as server-side development.

### **Data Science & Analytics Boot Camp Certificate:** Georgia Institute of Technology

[September 2022]

A 24-week intensive program focused on gaining technical programming skills in Excel, Python programming, JavaScript, HTML5/CSS, API Interactions, PostgreSQL, Tableau, fundamental statistics, machine learning, Git/GitHub.

### **Master of Urban & Regional Planning:** Virginia Commonwealth University

[May 2015]

- Post-baccalaureate certificate, GIS
- Winner of 2015 Claudia Paine Memorial Award for top research presentation
- L. Douglas Wilder Graduate Scholars Fellow (2014-2015)
- Graduate Teaching Assistantship (2013-2014)

### **Bachelor of Science, Math & Economics:** Furman University

[May 2011]

-Recipient of Achievers Scholarship (2010)