

# Nikko Siegfried

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## Professional Experience

### Westwood Professional Services

Austin, TX

#### GIS Specialist

September 2023 - Current

- Used **Python** and **ModelBuilder** to automate collection, standardization, analysis, and uploading of large and often uncleaned spatial datasets.
- Organized and maintained data using both ArcGIS Enterprise and ArcGIS Online while regularly pulling data using the **ArcGIS API**.
- Constructed and deployed web applications, technical reports, and presentations related to engineering projects.
- Learned new software such as **Survey123**, **Global Mapper**, and **VertiGIS Studio** to collect and deploy spatial data.

### State Cartographer's Office

Madison, WI

#### GIS Intern

October 2022 - May 2023

- Collaborated in a team of four to create a high-resolution flood exposure vulnerability map for Ashland County in Northern Wisconsin.
- Actively contributed to team planning and execution, applying **relational database structure** organization using defined keys.
- Populated, organized, and managed a multi-layer geodatabase used for hazard mitigation, resource allocation, vulnerability assessments.
- Developed a survey for regional leaders and emergency managers to assess areas of need in flood exposure vulnerability analysis.

### High Road Strategy Center

Madison, WI

#### GIS Intern

June 2022 - May 2023

- Collaborated with a professor and graduate student to create a municipal financial analysis report promoting more efficient and equitable urban development.
- Collected, cleaned, and analyzed datasets for 18 municipalities to construct **3-D financial analysis visualizations**.
- Managed and automated analysis implementing geodatabases and **ModelBuilder**.
- Researched data analysis and presentation methods related to spatial municipal analysis.

## Technical Skills

### GIS

- ArcGIS Pro | ArcGIS Enterprise | ModelBuilder | ArcGIS Online | Esri StoryMaps | QGIS | VertiGIS Studio | Survey123 | Global Mapper

### Programming Languages

- Python (*Arcpy, Geopandas, GDAL, Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, RegEx*) | Javascript (*Leaflet, Mapbox GL, JQuery*) | HTML5/CSS (*Bootstrap*) | R & RStudio | SQL | Arcade

### Other Software

- Microsoft Products (*Excel, Word, Powerpoint, Outlook, Teams*) | git & GitHub | Adobe Illustrator

## Education

### University of Wisconsin – Madison

2019 - 2023

- Cartography and Geographic Information Systems (B.S.)
- Physical Geography: Earth Systems and Environmental Processes (B.S.)

### Certificate

- Environmental Studies

### Notes

- Focused on implementing tools such as python and matplotlib to analyze and visualize spatial data
- Worked up to 25 hours per week at two GIS positions while fulfilling 17 course credit hours

## Other

### Volunteering

- Humanitarian OpenStreetMap Contributor