

# 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 complex and often uncleaned spatial datasets.
- Organized and maintained data using both ArcGIS Enterprise and ArcGIS Online while regularly pulling data using the ArcGIS REST API.
- Constructed technical reports, presentations, and planning documents related to engineering projects.
- Learned new software such as Survey123 and VertiGIS Studio to collect and deploy spatial data.

### State Cartographer's Office

Madison, WI

#### Student 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.
- 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.
- Actively contributed to team planning and execution, applying relational database structure organization using defined keys

### High Road Strategy Center

Madison, WI

#### Student 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

### Programming Languages

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

### Other Software

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

## Education

### University of Wisconsin – Madison

2019 - 2023

#### Majors

- 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