

EMILY RICHARDSON

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SKILLS

Technology Tools & Languages | Esri ArcGIS Instant Apps, ArcGIS Online, ArcGIS Pro 3.x, ArcGIS StoryMaps, Canva, Git/GitHub, Google Maps, Microsoft Office Suite (Excel, PowerPoint, Word)

Concepts & Methods | Attribute data entry, cartography and data visualization, data collection, metadata creation and management, spatial analysis, statistical analysis

Soft Skills | Active listening, adaptability, attention to detail, communication, critical thinking, organization, problem-solving, time management

EXPERIENCE

Wiser Imagery Services, LLC

Mar 2025 – Present

Geospatial Apprentice, supporting Janus – Neptune (via Leidos)

- Understand and follow project-specific guidance
- Independently use technical resource and guidance documents
- Clean geographic data errors and omissions
- Perform digital feature extraction from multiple data sources
- Attribute digital data
- Apply cartographic editing techniques (e.g., feature displacement, thinning, symbolization, and annotation)
- Suggest and implement improved work methods

Virtual Federal Student Service (US Forest Service)

Sept 2024 – Present

GIS Mapping & Research Intern

- To date, digitized **1,300+** historical cemeteries across **~3,000** square miles in **6** Kentucky counties from USGS topographic maps in ArcGIS Pro
- Utilized publicly available data (Google Maps, OpenStreetMap, Find a Grave, county historical society records) to identify and document **750+** cemeteries and their attributes prior to field verification
- Recommended contacting Ancestry for Find a Grave data, facilitated the request, and processed the dataset for integration into ArcGIS Pro, reducing manual searches by **60%+**
- Proposed the use of Google Maps Street View and parcel data, identifying **13%** of previously unknown cemeteries
- Leveraged AI to develop Python code and an ArcGIS Notebook for GIS workflow optimization, automating approximately **two-thirds** of the process and reducing manual tasks by **~66%**

Humanitarian OpenStreetMap Team

Apr 2023 – Present

Volunteer Mapper

- Digitize features (buildings, roads, and other aspects of critical infrastructure) to support humanitarian missions, disaster relief, and community development

EDUCATION

Western Illinois University

Dec 2024

Bachelor of Science: Mathematics & Geographic Information Science

Minor: Geology

- **Awards:** Norman and Carmelita Teeter Undergraduate Research Award & Grant for honors thesis on *Spatially Adjusted Correlations Between Crime and Topographic Variables*