David Kolodziejski

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Professional Summary:

A mid-level geospatial analyst with several years of experience preparing, transforming, and utilizing geographic data in multiple formats to derive insights and provide solutions to complex problems. Seeking to combine my passion for data analytics and the environment to create action-oriented solutions to solve environmental challenges, and enable others in achieving environmental aspirations.

Skills:

GIS, Remote Sensing, Data Analytics
- Spatial Analysis
- Supervised and Unsupervised Classification
- Photo Interpretation / Digitizing
- Database Management and Design
- Quality Assurance / Quality Control
- Statistics (Regression)
- Research Methodology
- Data Visualization
- Technical Documental and Workflows Creation

Programs and Languages
- ArcGIS Desktop
- ArcPro
- Google Earth Engine
- ENVI
- R Studio
- Microsoft Excel
- SQL
- Python
- Google Collab

Computer Packages
- Tidymodels/Tidyverse
- GDAL/Rasterio
- Sklearn/ggplot

Project Management
- Leadership
- Communication
- Collaboration
- Problem-solving
- Adaptability

Work History:

Geospatial Analyst II, *Axim Geospatial– Sun Prairie, WI*   July 2017 – Present
- Analyze and prepare geospatial data sets for production tasks by utilizing geoprocessing tools and python to clean, transform, and combine data sets.
- Lead and manage geospatial content management projects.
- Develop, analyze, and manage data and geospatial products through interpreting satellite imagery to extract anthropogenic and natural features.
- Communicate to stakeholders and senior-level analysts on how databases were edited and transformed during the data cleaning process through presentations and documentation.
- Conduct quality assurance on data and provide meaningful feedback to the production team.
- Develop standard operating procedures and technical documentation on best GIS practices and geoprocessing efforts.
- Train geospatial technicians in developing the skills necessary for GIS production mapping.

Geospatial Analyst (Volunteer/Contractor), *The Nature Conservancy – Seattle, WA*   June 2022 – Present
- Utilize diverse geospatial data sources to predict various geographic phenomena across the landscape.
- Analyze and prepare geographic data sets and remote sensing observations for large-scale carbon-related analysis across the Emerald Edge Rainforest.
- Utilize Python, R, and Google Earth Engine to apply machine learning algorithms to create model predictions and maps.
- Develop machine learning pipelines and document results to communicate with stakeholders.

GIS Specialist, *Wisconsin Department of Natural Resources– Madison, WI*   Feb 2019 – Jan 2020
- Provide GIS, spatial analysis expertise, technical support, and consultation for various forestry, fire ecology, LANDFIRE research projects.
- Communicate findings to stakeholders across 20 different states throughout the Northeastern United States.

Projects:

Assessing the Temporal Changes of Biomass Across the Emerald Edge Rainforest (In Development). Determine how the combination of remote sensing, geographic datasets, and various machine learning algorithms can be used to predict and quantify biomass throughout the Emerald Edge Rainforest from 2000 to 2021.

Education:

University of Wisconsin – Madison   August 2022
- Master's Degree in Environmental Observation and Informatics

Google   October 2021
- Data Analytics Professional Certificate

University of Wisconsin – Whitewater   May 2017
- Bachelor's Degree in Geography with Minor in Mathematics
- GIS Certificate