

# Mackenzie J. Kane

Email: [mjkane1192@gmail.com](mailto:mjkane1192@gmail.com) | Telephone: 719-331-9796 | Portfolio Page:

[mkane40.github.io](https://mkane40.github.io)

## EMPLOYMENT HISTORY

9/2022 – Currently Employed

**GIS Analyst (Applications & Integrations), Black Hills Energy - Nebraska**

- Develop scripts/models for schema changes and data analysis (python/SQL)
- Design and maintain services, web apps/maps, and dashboards using ArcGIS Pro, Portal, Server Manager, and Online Assistant
- Responsible for managing several databases and workflow enhancement projects
- Maintain users, permissions, access, and licensing through ArcGIS Online and Portal

11/2020 – 9/2022

**Senior GIS Technician (Gas GIS), Black Hills Energy – Nebraska**

\*Promoted from GIS Technician 02/2021

- Created dozens custom script tools for process automation
- Designed and maintained services, web apps/maps, and dashboards
- Redesigned and managed the data quality assurance and control program – utilized Data Reviewer and Access
- Trained eight new employees and contractors on gas GIS asbuilding

5/2019 – 11/2020

**GIS Technician, Aerotek (Contract for Black Hills Energy) - Nebraska**

- Reviewed and edited gas utility assets in GIS
- Wrote scripts/models to create custom tools for process automation
- Ensured data integrity and customer safety

09/2018 – 4/2019

**Imaging Technician II, Sanborn Map Company - Colorado**

- Performed aerial telemetry, orthorectification, and review high-resolution aerial imagery
- Scripted tools to streamline/automate repetitive workflows
- Facilitated a pilot imagery processing project utilizing drones

06/2018 – 07/2018

**Research Fellowship, The Center for Spatialtemporal Thinking, Computing & Applications at George Mason University (National Science Foundation Funded) REU Summer - Virginia**

- Assisted in the development of deep learning models to identify/predict tropical cyclone movement
- Utilized Python scripting to collect and preprocess data for model training
- Created several geo-visualizations for project analysis

09/2017 – 05/2018

**GIS Student Lab Assistant, Geography & Environmental Studies (GES) Department UCCS – Colorado**

- Assisted students to perform and execute GIS lab/course work
- Graded/Tutored students on upper division course/lab work

# Mackenzie J. Kane

Email: [mjkane1192@gmail.com](mailto:mjkane1192@gmail.com) | Telephone: 719-331-9796 | Portfolio Page:

[mkane40.github.io](https://mkane40.github.io)

## EDUCATION

***M.S. Cartography & GIS - Online GIS Development Program. 4.0 GPA - 09/2021 – Currently Enrolled***

University of Wisconsin, Madison, WI

***B.A. Geography & Environmental Studies. GIS Certificate 3.8 GPA - 05/2018***

University of Colorado at Colorado Springs, Colorado Springs, CO

*Graduated Departmental Honors with Highest Distinction, Magna Cum Laude, Outstanding Undergraduate Student Award*

## SKILLS/SOFTWARE EXPERIENCE

Python • SQL Server Management Studio • ESRI (ArcGIS Enterprise, ArcPro/Map, Online)  
• PowerBI • Microsoft (Excel/ Word/VisualStudioCode/Access) • Notepad ++ • pgAdmin  
• Adobe Photoshop/Illustrator • HTML/CSS/JavaScript • QGIS • Global Mapper •  
SimActive • Ultramap • Tableau • GeoDa