# Mackenzie J. Kane

Email: **mjkane1192@gmail.com** | Telephone: 719-331-9796 |Portfolio Page:
**mkane40.github.io**

## EMPLOYMENT HISTORY

9/2022 - Currently Employed
**GIS Analyst** *(Applications & Integrations)*, *Black Hills Energy – Colorado*

- 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, groups, and licensing in ArcGIS Online and Portal as an administrator
- Serve as Power BI Champion during the enterprise reporting tool rollout. Responsible as the *go-to* expert to train and support the business unit.

11/2020 – 9/2022
**Senior GIS Technician** *(Gas GIS)*, *Black Hills Energy - Nebraska*

- 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 asbuilting

5/2019 – 11/2020
**GIS Technician**, *Aerotek (Contract for Black Hills Energy) - Nebraska*

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

09/2018 – 4/2019
**Imaging Technician II**, *Sanborn Map Company - Colorado*

- Performed aerial telemetry, orthorectification, & 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 & 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 & execute GIS lab/course work
- Graded/Tutored students on upper division course/lab work

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### EDUCATION

***M.S. Cartography and 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) ● Microsoft (Power BI /Excel/ Word/VisualStudioCode/Access) ● Notepad ++ ● pgAdmin ● Adobe Photoshop/Illustrator ● HTML/CSS/JavaSript ● QGIS ● Global Mapper ● SimActive ● Ultramap ● Tableau ● GeoDa