

Mackenzie J. Kane

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mkane40.github.io

EMPLOYMENT HISTORY

11/2020 - Present

GIS Technician, Black Hills Energy - Nebraska

- Review & edit gas utility assets in GIS
- Utilize scripting/models to create custom tools for process automation
- Created numerous maps (online & paper)
- Ensure data integrity & customer safety
- Developed new practices for data quality assurance & control

5/2019 – 11/2020

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

- Review & edit gas utility assets in GIS
- Utilize scripting/models to create custom tools for process automation
- Created numerous paper maps
- Ensure data integrity & customer safety

09/2018 – 4/2019

Imaging Technician II, Sanborn Map Company - Colorado

- Perform aerial telemetry, orthorectification, & review high-resolution aerial imagery
- Script code to streamline/automate GPS tolerance evaluation recording
- Facilitate drone imagery DEM modeling, mosaics, & orthorectification processes
- Track/update GIS databases with mission/imagery competition

06/2018 – 07/2018

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

- Assisted in the development of a Deep Learning (AI) model to identify/predict tropical cyclone movement
- Utilized Python scripting to collect & preprocess data for AI training & experiments
- Performed geo-visualization & big data analysis of hurricanes

09/2017 – 05/2018

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

- Assist students to perform & execute GIS lab/course work
- Tutored students on upper division course work (Digital Earth, Remote Sensing, Image Processing, Internet GIS, Spatial Database, Intro to GIS, Advanced GIS)
- Graded upper division lab/course work (Spatial Database, Intro to GIS, Digital Earth)

SOFTWARE EXPERIENCE

Python & R scripting • ESRI (ArcGIS/Pro/Online) • Locus View • Global Mapper • Inpho • SimActive • Adobe Photoshop • Adobe Illustrator • Ultramap • Tableau • Panoply • Terrset • GeoDa • Google Earth • Excel • Word • OneNote • Notepad ++ • Power BI

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EDUCATION

09/2021 – Present

University of Wisconsin, Madison

M.S. Cartography and GIS - Online GIS Development Program

08/2015 – 05/2018

University of Colorado at Colorado Springs,
Colorado Springs, CO

B.A. Geography & Environmental Studies GIS Certificate, Departmental Honors with Highest Distinction, Magna Cum Laude, Outstanding Undergraduate Student Award

08/2012 – 12/2012

Metropolitan State University, Denver, CO

Industrial Designs

08/2011 – 05/2012

Colorado State University, Fort Collins, CO

Undeclared