

J. Mitchell Green

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Technical Skills

Python	Flask	Node.js	Geopandas	Arcgis Python API
Javascript	PostgreSQL	Pandas	ArcGIS Online	ArcGIS Pro
HTML	CSS	Django	PostGIS	Mapbox GL

Employment Experience

GIS Specialist Sept. 2020 - present
GAI Consultants, Inc. *Pittsburgh, PA*

- Provided support for our client that manages over 7,000 megawatts of wind and solar utility scale renewable energy
- Coded a Python script to archive geospatial data and automate workflows for team-members
- Taught myself Pandas Python library to clean, parse, and transform spatial data in Jupyter notebooks
- Implemented ArcPy Python library for spatial analyses to solve client requests on-demand
- Communicated with Operations team to build a web mapping app for viewing/editing substation data
- Maintained enterprise geodatabase by updating renewable energy facility data across the contiguous US
- Produced more than 100 individual property boundary maps for renewable energy lease agreements
- Created and distributed web maps including COVID-19 employee risk analysis, wildfire risk assessment, and U.S. power grid heat-map

Geospatial Researcher Aug. 2019 - May 2020
James Madison University *Harrisonburg, VA*

- Developed python tool for exploratory research into novel raster analysis techniques
- Scripted a QGIS plugin to represent satellite imagery with piano audio feedback

Teaching Assistant Aug. 2018 - May 2020
James Madison University *Harrisonburg, VA*

- Directed research and applications of GIS technologies for 50 students across four courses
- Python and GIS Applications - Assisted teaching fundamentals of coding including scripting in Python 3
- Cartography & Geospatial Visualization - Supported students' cartographic techniques and practices
- Intermediate Geographic Information Science - Educated core functionality of GIS and spatial databases
- Analysis of Land Use and GIS - Lead discussions and assisted research on the geography of land use

Field Surveyor Intern May 2019 - July 2019
Christopher Consultants, Ltd. *Manassas, VA*

- Established frontend site stakeouts using surveying stations, GPS, and data collection software

Education

Bachelor of Science in Geographic Science Aug. 2016 - May 2020
James Madison University - magna cum laude *Harrisonburg, VA*

Concentrations	Applied Geographic Information Systems (GIS)	
	Environmental Conservation, Sustainability, and Development	
Minor	Environmental Information Systems	
Study Abroad	Environmental and Energy Sustainability	<i>Saarbrücken, Germany</i>
Awards	2020 Geographer of the Year	