

## SUMMARY

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**Experienced GIS Professional** with 5 years specializing in geospatial data science, Web GIS, and map design. Seeking roles as a *GIS Analyst* or *Geospatial Data Engineer* to apply expertise in spatial data and drive innovative, data-driven results. Committed to leveraging GIS technologies to develop geospatial solutions in engineering.

## EDUCATION

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- University of Wisconsin-Madison, WI, USA** **Madison, WI**  
*Master of Geographic Information System & Cartography; GPA: 3.8/4.0* *Sep 2019 – Dec 2020*  
*Advanced courses: Advanced Quantitative Method, Geocomputing & Big Data Analytics, Geospatial Database Design and Development*  
*Publication: [Places for Play: Understanding Human Perception of Playability in Cities Using Street View Images and Deep Learning](#)*
- Cheng Kung University** **Tainan, Taiwan**  
*Bachelor of Science in Urban Planning* *Sep 2014 – May 2018*

## SKILLS

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- Programming:** Python, JavaScript, SQL, R, SQL (PostgreSQL and PostGIS)
- Geospatial Data Science:** Data engineering, geospatial analysis, GeoAI, machine learning for geospatial applications
- GIS & Cartography:** Proficient in Esri ArcGIS ecosystem (ArcMap, ArcGIS Pro, ArcGIS Enterprise, ArcGIS Online), Web GIS (Mapbox GL JS, Leaflet, ArcGIS API, Google Maps API), map design (GIS, Adobe Illustrator)
- Professional Skills:** Technical support, technical writing, adept at self-directed and cross-functional collaboration

## WORK EXPERIENCE

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- Blue Marble Geographics** **Hallowell, ME**  
**GIS Application Specialist** **Mar 2022 – Present**
  - Spearheaded geospatial data analysis and consulting across diverse industries by leveraging advanced GIS technologies to deliver innovative solutions for 300+ projects.
  - Developed and led GIS scripting courses, creating custom materials for both internal teams and external clients, resulting in a 40% increase in department revenue and enhanced geospatial capabilities across organizations.
  - Collaborated with cross-functional teams to understand complex data requirements, delivering tailored geospatial solutions that drive data-informed decision-making.
  - Presented technical talks at industry conferences and trade shows, showcasing cutting-edge geospatial solutions and maintaining expertise in emerging trends.
- Cyclomedia** **Middleton, WI**  
**LiDAR Data Analyst** **Jun 2021 – Dec 2021**
  - Engineered a proprietary digital asset library for transportation, telecommunication, and gas industries.
  - Revolutionized project process flow and drove a \$5 million increase through strategic optimization.
- University of Wisconsin, Madison** **Madison, WI**  
**Research Assistant at The Geospatial Data Science (GeoDS) Lab** **Jan 2020 – Mar 2021**
  - Engineered data pipelines to compile and integrate environmental EPA's smart location datasets with demographic datasets, enhancing data accessibility for spatial analysis.
  - Developed custom Python spatial analysis methods using Matplotlib, Shapely, and GeoPandas to analyze over 100,000 Google Street View images, discerning spatial patterns and trends.
- GIS Metadata Technician at The Arthur H. Robinson Map Library** **Sep 2019 – Sep 2020**
  - Collected source data from publicly available sources, enhancing discoverability of geospatial resources.
  - Optimized data retrieval by developing a Python pipeline that leveraged the Esri ecosystem (ArcCatalog) and ArcPy to automate archival processes for Lidar and aerial imagery, significantly improving workflow productivity.

## PROJECTS

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- [Midwest Dam Infrastructure Volunarbility Analysis](#)
- [Web GIS: Campground and Public Land Exploration](#)
- More projects at [My Porfolio](#)