

MAXWELL KORTEBEIN

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PROFESSIONAL SUMMARY

Graduate student in Geographic Information Systems with a background in data science and international education. Skilled in Python, ArcGIS, and spatial analysis, with a passion for transforming complex data into actionable insights for public and environmental benefit.

EDUCATION

University of Minnesota – Twin Cities

Minneapolis, MN

Masters in Geographic Information Systems (GIS)

Expected: May 2027

- **Relevant Courses:** Principles of Cartography, Intermediate Spatial Data Science with ArcGIS, GIS Project Management

University of Wisconsin - Madison

Madison, WI

B.S. Data Science

September 2019 – May 2023

- **GPA:** 3.45
- **Relevant Courses:** Data Programming II, Data Modelling II, Big Data Systems, Introduction to Artificial Intelligence

TECHNICAL SKILLS

Programming & Tools: Python, SQL, ArcGIS Pro, QGIS, Git, Docker, GeoJSON, Data Visualization

Analytical Skills: Spatial Analysis, Data Wrangling, Statistical Modeling, Public Data Interpretation

Soft Skills: Communication, Critical Thinking, Public Speaking, Mentorship

EXPERIENCE

Chiba Board of Education

Chiba, Japan

Assistant Language Teacher

August 2023 – August 2025

- Taught English and science to over 320 high school students, focusing on making complex scientific topics accessible and engaging.
- Mentored 20 students over two semesters in preparation for international science presentations during a one-week exchange program in Taiwan.
- Strengthened public speaking and classroom leadership skills in a multicultural environment.

PROJECTS

Chicago Public Transportation Analysis

Minneapolis, MN

2024 – Present

- Analyzed ridership data from the Chicago Open Data portal to evaluate transit demand.
- Cleaned and combined datasets using Python and GeoPandas; created GeoJSON files representing bus lines.
- Designed interactive visualizations in ArcGIS Pro, enabling year-over-year comparisons of bus route popularity.
- Created an interactive ArcGIS Pro map allowing transit planners to visualize yearly ridership changes and identify underserved areas.

EDGAR Dataset Access Visualization

Madison, WI

2021 – 2022

- Filtered and processed over 1 million IP log entries, narrowing to 40,000 relevant records for analysis of global access to SEC's EDGAR datasets.
- Built a choropleth map of dataset usage by country, highlighting global interest in U.S. financial data.
- Leveraged Python and GeoPandas for data cleaning, spatial joining, and visualization.

LEADERSHIP & ACTIVITIES

ESS Club

Chiba, Japan

Club Leader

2023 – Present

- Organized weekly English-speaking meetups and cultural exchange events.
- Mentored club members in English language learning and presentation skills.

Basketball Intramural Club

Chiba, Japan

Club Member

2024 – Present

- Participate in weekly basketball practices and games, promoting teamwork, discipline, and physical wellness.
- Support club event organization and help integrate new members into the group.

ADDITIONAL INFORMATION

Languages: English (native), Japanese (intermediate)

Interests: Basketball, Reading, Music, Piano, Language Learning