

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

Masters in Geographic Information Systems (GIS)

Minneapolis, MN

Expected: May 2027

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

University of Wisconsin - Madison

B.S. Data Science

Madison, WI

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

University of Minnesota

Transportation Intern

Minneapolis, Minnesota

September 2025 - Present

- Help maintain records of public infrastructure.
- Conduct spatial analyses on bike data collected from surveys to understand ridership patterns.

University of Minnesota

Graduate Teaching Assistant – Principles of Geocomputing

Minneapolis, Minnesota

September 2025 - Present

- Assist both undergraduate and graduate students in learning Python with an emphasis on geospatial use.
- In charge of grading labs, exercises, and longer form problems, as well as hosting office hours and assisting students in any way I can.

Chiba Board of Education

Assistant Language Teacher

Chiba, Japan

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.

PROJECTS

Metro Transit Route Analysis

Minneapolis, MN

2025 – Present

- Analyzed demographics, POI, and infrastructure data, cleaning and joining features when necessary
- Created rasters showing the suitability of public transportation around the Twin Cities metro area, utilizing Python and ArcGIS Pro.
- Using hot spot analysis, created optimal paths for new and existing Metro Transit routes.
- Created an interactive Esri Storymap to explain my analysis and the results from it.

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