

Yufei Xia

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- **GIS:** ArcGIS, QGIS, Mapbox GL JS, PostGIS, PyQGIS/ArcPy, Adobe Illustrator
- **Programming:** JavaScript (Node, React, Vue, Svelte), TypeScript, Python, SQL
- **Data & Tools:** MS Excel, Power BI, Azure, Git/GitHub

EDUCATION

University of Wisconsin-Madison Jan. 2025 - Sept. 2026
Master of Science in Cartography & GIS | **Current GPA: 4.00/4.00** Madison, WI

University of Washington Sept. 2019 - Jun. 2023
Bachelor of Art in Geography: Data Science | **Overall GPA: 3.74/4.00** Seattle, WA

EXPERIENCE

Wisconsin State Cartographer's Office Sept. 2025 - Present
GIS Intern Madison, WI

- Developed an interactive web map with Svelte/TypeScript and ArcGIS Maps SDK to publish Wisconsin's Original Survey Records & Maps, digitizing historic field notes and plat maps for online access.
- Performed data processing and attribute enrichment on spatial tables, standardizing records to support efficient querying, visualization, and integration into statewide GIS services.

United Nations May. 2025 - Aug. 2025
Data Engineering Intern New York, NY

- Built full-stack (React, Node.js) Chartstool for interactive charts & maps with direct ThinkCell PPT export, accelerating FactPack report production.
- Designed and maintained relational geospatial databases (PostgreSQL/PostGIS, MySQL), ensuring data integrity, efficient queries, and multi-source integration.
- Developed ETL pipelines to integrate multi-source datasets, including spatial queries and automated QGIS/ArcGIS workflows.
- Produced geospatial analyses and visualization products used in UNOCC fact packs and mission briefings.

Contrapysch (Start-up) Jun. 2024 - Sep. 2024
Full-Stack Developer Intern Suzhou, China

- Refactored an AI-driven counseling app (Vue3, UniApp), adding real-time chat/voice with WebSocket and improving performance. Optimized codebase resulting in improved performance and user experience.

Humanistic GIS Lab, UW Jan. 2022 - Jun. 2023
Undergraduate Research Assistant Seattle, WA

- Conducted spatial data analysis on queer community spaces, supporting research on urban geography.
- Designed and implemented Mapbox-based interactive web maps; authored technical documentation for GIS tools.

PROJECT

Chartstool - UNOCC Internal Data Visualization & Mapping Platform (United Nations, 2025)

- Built a full-stack (React + Node.js) platform for selecting over 4000+ indicators/sources, creating interactive charts & maps modules, and exporting pre-rendered ThinkCell PPT, speeding FactPack report production.
- Developed ETL pipelines integrating multi-source datasets (ACLED, IOM, FAO DIEM, IPC, etc) into PostgreSQL/PostGIS & MySQL.

VGI LGBTQ+ Space Project

- Build a full-stack volunteered geographic information WebGIS platform using JavaScript/HTML/CSS and Mapbox, enabling users to submit spatial edits via dynamic forms, with edits instantly reflected in both database and live web map.
- Deployed a PostgreSQL-powered spatial database to store and manage user-generated geodata, ensuring real-time synchronization with Mapbox layers.