OLIVIA WHITING

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EDUCATION

UNIVERSITY OF IOWA   Iowa City, IA
Bachelor of Arts   Expected May 2026
Major in Computer Science; Minor in Geographic Information Science
Cumulative GPA: 3.68/4.0; Dean's List 2022-2025
Relevant Coursework: Software Development; Algorithms; Geographic Visualization; Geographic Databases

COURSE EXPERIENCE:
Intro to Software Development- Final Project: Feature Implementation
- Took on a large existing code base of 50+ files and thousands of lines of code in Java
- Led a team of other students to document and implement new features
- Organized group work sessions outside of class time, considering all team member schedules

Geographic Visualization- Final Project: Bur Oak Blight in the Iowa Great Lakes
- Designed and built an interactive project website using JavaScript, HTML, and CSS to present goals, methods, and findings
- Created multiple reference maps and self-organizing maps from GPS-derived spatial data using ArcGIS Pro and Somvis
- Presented methods, visualizations, and analytical insights to professors and peers, responding to technical and conceptual questions

Geographic Databases- Final Project: Iowa Runoff Analysis
- Designed and developed a spatial database to analyze surface runoff in the state of Iowa
- Implemented relational and spatial data structures to support geospatial querying and analysis
- Wrote and optimized PostgreSQL/PostGIS queries to extract, aggregate, and analyze spatial relationships
- Conducted spatial joins and attribute-based queries to support environmental analysis objectives
- Documented database design, analytical methods, and results in a comprehensive final lab report

Technical Skills- Proficient in: Java, HTML, CSS, ArcMap, QGIS
                 Experienced in: ArcGIS Pro, ArcGIS Online, Database Design, Python, PostgreSQL
Languages- Fluent in English; Conversational Proficiency in Spanish

WORK EXPERIENCE

UNIVERSITY OF IOWA LIBRARIES – DIGITAL PUBLISHING STUDIO   Iowa City, IA
Junior Developer – Support Lead   Nov 2025 – Present
- Supported digital projects from the Digital Publishing Studio to comply with ADA guidelines
- Proposed solutions to GIS projects previously stagnant in progress
- Collaborated with faculty from several departments across the University
- Completed tasks both independently and with close mentor collaboration on larger projects

CITY OF CEDAR RAPIDS Cedar Rapids, IA
GIS Intern- Water Department   May 2025 – Aug 2025
- Updated, verified, and maintained GIS database and tables; organized and geocoded water quality information
- Digitized infrastructure and related data from hard copy maps, drawings, and written information for entry into GIS
- Used ArcMap and ArcGIS Pro to digitize, maintain, and analyze geographic data
- Provided map and data requests
- Provided technical support to utility engineers and city water inspectors; provided GIS support to project engineers

OKOBOJI BARZ INC.   Arnold's Park, IA
Kitchen Staff, Expo/Host, Barback, Server   May 2023 – May 2025
- Managed 15+ back-of-house employees during busiest seasonal times, serving hundreds of customers each weekend
- Took on multiple positions whenever and wherever needed, sometimes at multiple locations
- Trained new staff in almost all positions, ensuring proficiency and being available for questions at all times