***Alexander Larson***

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**EDUCATION**

**Master of Science in Cartography and GIS**

**University of Wisconsin-Madison Expected Graduation: August 2023**

Relevant Skills and Coursework

* Graduate level classes in Cartographic Design, Python and Geocomputing, Interactive Cartography and Geovisualization, Remote Sensing, Graphic Design in Cartography, and Geographic Information Systems
* Worked with software such as ArcPro, Photoshop, Illustrator, Visual Studio Code, and QGIS
* Developed web maps using JavaScript, HTML, CSS, and Geospatial JavaScript Object Notation (GeoJSON)
* Built visualizations using existing JavaScript libraries such as Leaflet and D3
* Used geographic spatial data including both vector and raster datasets
* Worked in student group led research projects and applications
* Independently designed and developed research projects and applications spanning across different research backgrounds
* Utilized a user-centered approach, using a target user and their requirements for applications or projects
* Develop supporting documentation, such as tables and graphs, to help present results of GIS and data analysis

**Bachelor of Science in Environmental Science**

**Carroll University; Waukesha, Wisconsin Graduated May 2022**

Relevant Skills and Coursework

* Undergraduate level classes in Geomorphology, Soils and Hydrology, Introductory level GIS, Atmospheric Science, Natural Resource Management, Aquatic Ecology, Biology, Chemistry, Watershed Management, and Computer Statistics
* Identified glacial, desert, and coastal features on topographic maps and aerial imagery
* Basic rock and mineral identification
* Worked with software such as Excel, Python, and Spyder, along with Adobe Photoshop, Illustrator, and Bridge
* Student led NRCS GIS project that displayed soil data across all of Wisconsin
* Other classwork included Spanish, photography, cross cultural curriculum, and leadership and personal effectiveness

**EXPERIENCE**

**Wisconsin Memorial Union Terrace**

Madison, Wisconsin June 2023 – Present

Student Worker

* Learn entire menu for a restaurant
* Maintain a clean and organized workplace
* Restock and prepare line stations and coolers
* Work in fast-paced environment while maintaining quality food standards
* Help maintain effective communication throughout the workday

**Lucky’s 1313**

Madison, Wisconsin September 2022 – May 2023

Line Cook

* Learned entire menu for a restaurant
* Maintained a clean and organized workplace
* Restocked and prepared line stations and coolers
* Worked in fast-paced environment while maintaining quality food standards
* Cleaned kitchen and work area at end of operating hours
* Helped maintain effective communication throughout the workday
* Helped facilitate a kitchen environment with Spanish and English speaking employees

**US Department of Agriculture- Natural Resources Conservation Service**

Devils Lake, North Dakota May 2021 – August 2021

Elkhorn, Wisconsin October 2021 – December 2021

Mott, North Dakota June 2022 – August 2022

Student Trainee- Soil Conservationist

* Provided technical assistance for long term soil protection
* Worked with software programs such as ArcGIS, Protracts, Conservation Assessment Ranking Tool (CART), and Conservation Desktop
* Helped create and implement NRCS 9-Step conservation plans
* Individually built contracts to provide financial and technical guidelines for implementation of producer plans
* Independently conducted in-field checks and testing to determine effectiveness of implemented plans, using tools such as ArcPad, Trimble GPS Devices including Tablets and Rover and Stations, and various soil testing tools
* Shadowed and worked alongside with engineers, biologists, cultural resource specialists, and other technicians
* Independently created and managed geospatial shapefiles and databases
* Used GIS software such as ArcPro and ArcMap to manage, analyze, and manipulate spatial datasets without supervision

**Carroll University**

Waukesha, Wisconsin

Resident Assistant August 2021- May 2022

* Oversaw a floor of 30 students
* Carried out closing procedures and room checks
* Wrote reports and work orders, and helped with roommate situations including mediations
* Acted as an on-call Resident Assistant one night a week, with weekend nights on rotation
* Hosted period floor meetings to present latest updates to the community
* Led and built a community within a residence hall
* Engaged in programming and bulletin board that displayed information
* Delivered mail to students at a front desk
* Hosted one on one meetings with students

Sports Photographer and Team Manager May 2019 – May 2022

* Worked as part of a media personnel team
* Captured photographs and videos of teams before, during, and after competitions
* Worked with photoshop, bridge, and illustrator when needed
* Provided photographs to athletes and parents through effective means of communication
* Worked with Sports Information department to create engaging social media pages for recruits, current athletes, and alumni

Computational Thinking Peer Educator March 2020 – May 2021

* Led tutoring sessions on coursework
* Worked and trained in groups of other peer educators to maintain skills
* Mentored a younger peer educator
* Had hands on sessions with students who needed help with the coursework or computer programs
* Independently problem solved certain technology-based issues
* Independently lead student study groups using Python code and Excel
* Worked with Teams and Zoom

Prairie Springs Environmental Station Student Intern October 2019 – December 2019

* Helped with maintenance and restoration of nature trail
* Assisted with youth programming
* Built nature trail boardwalks
* Led a research project which including building a weather station
* Created an operating manual for use and collection of data from weather station

**Monk’s Bar and Grill**

Plover, Wisconsin May 2019 – January 2022

Line Cook

* Learned entire menu for a restaurant
* Maintained a clean and organized workplace
* Restocked and prepared line stations and coolers
* Worked in fast-paced environment while maintaining quality food standards
* Helped train new employees
* Cleaned kitchen and work area at end of operating hours
* Helped maintain effective communication throughout the workday

**ORGANIZATIONS**

* Soil and Water Conservation Society (SWCS) – Student Member
* Bill Cook Chapter of the Izaak Walton League of America – Member
* Carroll University Fly Fishing Club – Club Secretary and Media Manager
* Frank Hornberg Chapter of Trout Unlimited

**SCHOLARSHIPS and AWARDS**

* Carroll Trustee Scholar
* Merit Donor Grant
* 8x Dean’s List Member at Carroll University
* Delta Sigma Nu Member 2021, 2022
* Graduated Summa Cum Laude, Carroll University
* Wisconsin Association of County Office Employees Scholarship 2019
* The Izaak Walton League of America Bill Cook Chapter 2020 Scholarship
* The Izaak Walton League of America Wisconsin Division 2020 Scholarship
* The Izaak Walton League of America National 2020 Scholarship