Madeline Bocek

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Education

2017-2021	**Bachelor of Science: Computer Science**	Completed Aug 2021
	o University of Minnesota, Twin Cities	GPA: 3.58

Work Experience

May 2024 - Current

California State Water Resources Control Board - GIS Specialist 1 - Sacramento, CA

o Created a GeoProcessing toolbox using ArcPy for uploading zipped shapefiles and KMZs to a hosted feature layer with the ultimate goal of collecting Sanitary Sewer Systems for the state of California.

o Used Planet Lab's API and SDK to download and process imagery, then create an image service on the Water Board's portal. This imagery is then used in decision making for cannabis enforcement agencies.

o Assisted the programs by supporting walk-in tickets. This includes troubleshooting ArcPro software issues, administering the portal by adding users, or advising users about best practices.

June 2022 - May 2024

Eldorado National Forest - GIS Intern - Placerville, CA

o Completed spatial edits of roads and trails using ArcMap to be used in the Motor Vehicle Use Map for the Lake Tahoe Basin Management Unit. This was done by collaborating with road and trail coordinators, referencing imagery and Li-DAR, and running internal tools for quality control

o Created high quality contracting maps for hazard tree removal, timber sales, planting and herbicide on the Eldorado National Forest and Lake Tahoe Basin Management Unit.

o Supporting GIS requests, such as creating information signs about fuels reduction, GPS field work, and troubleshooting general technology issues.

Feb 2022 - Jun 2022

ESRI - Desktop Support Analyst - Redlands, CA

o Assisted customers with troubleshooting ArcGIS Online, ArcGIS Pro, and ArcMap products by asking questions, referencing documentation, running tests, and collaborating with others.

o Learned how to balance multiple projects under time constraints by owning 7+ cases

May 2021 - Oct 2021

University of Minnesota Forestry Department - Student Researcher - Minneapolis, MN

o Gathered trail data from public parks via Stereolab's ZED stereo camera.

o Extracted object data from the camera using the SDK provided by Stereolab in Python. The data was then used to track users, with the ultimate goal of determining the average distance between trail users for pandemic planning.

June 2020 - Aug 2020

Medtronic - Engineering Intern - Remote

o Gained an understanding of document quality control by editing documents pertaining to Medtronic's mapping from Agile Project Lifecycle Management to Medtronic Agile Process.

Technical Skills

ArcGIS Pro, ArcMap, ArcGIS Online, ArcGIS Enterprise, Python, ArcPy, GitHub, DevOps