# Corin Zarkowski

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## Education

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| **University of Washington** (Seattle, WA) | *Sept 2018 – June 2022* |

    Major: GIS – Data Science
    Minor: Informatics

## Experience

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| **Streamline Transportation Technologies** (Remote – Kamloops, BC) | *June 2021 – Oct 2021* |

*Backend Development Intern*
- Used AWS services, primarily the NodeJS serverless framework with Postgres to develop various backend features, bug fixes, and testing tools.
- Learned collaborative software development skills, such as proper Git etiquette, unit test writing, and PR reviews.

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| **Contour Engineering** (Gig Harbor, WA) | *June 2018 – Sept 2018* |

*Engineering Intern*
- Became proficient in AutoCAD Civil3D and other relevant civil engineering software.
- Assisted in a wide variety of engineering projects, ranging from small-scale residential site plans to industrial drainage plans.

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| **Newbook: Svoboda Diaries Research Team** (Seattle, WA) | *Oct 2018 – Oct 2019* |

*Research Intern*
- Worked with a team of other undergraduate researchers to glean and format spatial data recovered from 18th century Iraqi notebooks and diaries.
- Used the obtained information to create a period-accurate map.

## Personal Projects

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| **NFL/College Football Data Analysis** | *Mar 2021 – Current* |

    ***Data Manipulation, Statistical Analysis, Python***
    Used Jupyter to scrape, clean, and filter data on all retired and active NFL players. Then showcased and compared each NFL position by their corresponding draft trends and PFF approximate value. Have also built several systems for ranking D1 college football teams based on underused metrics.

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| **Ski Area Map** | *Dec 2020 - Feb 2021* |

    ***Data Handling, HTML, Javascript***
    Wrote a Python script to scrape and format ski area data, then used HTML and Javascript with the Leaflet package to design and publish an aesthetically pleasing interactive map of United States ski areas.

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| **Urban Exploration Service** | *Oct 2017 – Sept 2018* |

    ***Backend, HTML, Javascript, Data Manipulation***
    Developed a shared interactive mapping website to showcase popular photo spots around the Pacific Northwest. Used NodeJS to create a server with a RESTful API and MongoDB for data storage. Hosted on an RHEL based VPS.

## Skills

    **General:** Python, Java, C
    **Frontend:** HTML, CSS, Javascript (React, jQuery, leaflet, Bootstrap)
    **Backend:** Node.js, AWS (lambda, EC2, SNS, Cloudwatch, Serverless), General RDBMS management using both SSH and DataGrip
    **Data Analaysis:** Jupyter, Essential Python Libraries (sklearn, pandas, mpl, numpy)