MEGAN SORENSON

Searching for Coop/Internship Roles 2023

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UBC Computer Science

EXPERIENCE

Data Science Intern
University of Calgary

May – September 2021 Calgary, AB

- Independent project in collaboration with the Canadian Animal Task Force (CATF) and Dogs Trust Worldwide.
- Analyzed the effectiveness of dog clinics over time using canine clinic data.
- Outlined changes for the organization's data collection methods to improve the quality of future assessments; feedback implemented in 2022 clinic data collection.

Sustainability R&D Co-op
Gaia Protein

January – June 2021 Calgary, AB

- Provided the literature basis for improving the sustainability and efficiency of cricket farming practices within the company.
- Created a handbook used for new-hires at the company as of June 2021.

PROJECTS

World Of Wordle Java Application
September 2022 - Ongoing

- A wordle-inspired Java application where players can choose to guess one, two, or three words simultaneously while trying to maximize their score.
- Includes serialization of game state to allow time-interupted playing of a single game.
- Implemented both a terminal-based UI and GUI.
- *Utilized:* Java, JUnit, Software Construction

Canine BCS Approximator [Abstract]
May – September 2021

- Developed a novel method for accurately approximating canine body condition score (BCS) using canine data and historical growth curves.
- Created opportunities to assess the impact of dog clinics where BCS data was not collected from veterinarians and volunteers.
- *Utilized:* R, Python, Statistics, Data Science

Optimal Shipping Routes in the Atlantic [GitHub]
September 2021 – January 2022

- A GIS project that utilized historical datasets by creating optimal shipping routes that avoid 90 percent of zooplankton hotspots.
- Contributed to the academic knowledge base by developping a cost-surface raster layer that was minimized for distance and plankton abundance.
- *Utilized:* ArcGIS Pro, Spatial Statistics, Story Maps, Python

Arthropod Data Project [GitHub]
September 2021 – January 2022

- Determined whether there was a correlation between climate variables and insect abundance using two decades of presence/absence data.
- Applied bootstrapping methods to find what combination of temporal climatic events would result in a boom/bust for an insect group.
- *Utilized:* R, Data Science, Data Visualization

EDUCATION

3rd Year Bachelor of Computer Science (BCS)
University of British Columbia

September 2022 – May 2025

BSc. Environmental and Conservation Sciences in Conservation Biology
University of Alberta, GPA: 3.7

September 2017 – May 2022

SKILLS/COURSEWORK

Python | R | HTML | CSS | Java | JavaScript | Git/GitHub | Visual Studio Code | IntelliJ IDEA | JUnit | LaTeX | dplyr | Problem Solving | tidyverse | ggplot2 | Spatial Statistics | Data Visualization | Algorithms | Data Cleaning | Regression Analysis | Data Structures | Functional Programming

OTHER WORK

Head Teaching Assistant
University of Alberta

September 2020 – May 2022

- Lead a laboratory session of 20 undergraduate students in the Department of Renewable Resources.
- Created and lectured material, supervised fieldtrips, and graded exams.

Battlesnake Competition Team Member
UBC Data Science Club

September 2022 – Ongoing

- Using reinforcement learning to compete in a 2D grid world against multiple other agents.
- Aiming to participate in the Winter 2023 competitive season.

NASA Space Apps Web App [GitHub]
October 2022

- A JavaScript game made using Phaser 3 that lets the player collect space garbage while avoiding obstacles generated using real solar data.
- Created during the 2022 NASA Space Apps Hackathon.

Fridge Poetry App [Web App]
August 2022

- A simple web application made using HTML, CSS, and JavaScript where you can create and share fridge poetry.
- Created during the 2022 Ignition Hacks Hackathon.