MEGAN SORENSON

Searching for Coop/Internship Roles

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UBC Science Co-op

EXPERIENCE

Software Developer Intern
SAP

📅 January - August 2023 📍 Vancouver, BC

- Developed Python Flask applications to establish a universal standard for SAP technology reselling, increasing efficiency and accuracy for companies through metric calculation and processing.
- Completed a KMeans cluster analysis on calculated metrics used to focus business priorities based on region, industry, and other company metrics.
- Created a unit test suite that increased code coverage by 40 percent.
- Created a MS Teams notification system that was integrated into different stages of the application to alert internal members about hidden bugs during metric calculation or data collection.
- *Utilized*: REST APIS, Python, Azure Machine Learning Tools, Machine Learning, SQL, NLP, Flask, Jenkins

Data Science Intern
University of Calgary, Canadian Animal Task Force

📅 May – September 2021 📍 Calgary, AB

- Independent project that utilized a decade's worth of raw data to determine whether veterinary data can be used to effectively assess impact of spay-neuter clinic charities in Alberta.
- Identified changes for the organization's data collection methods to allow for future assessments; data collection feedback was implemented in over a dozen clinics in 2022.
- *Utilized*: R, Data Analysis, Data Cleaning, Data Communication, Research

PROJECTS

Parking Airbnb: NwHacks 2023 Project [GitHub]
📅 January 2023

- Created a web application that allows users to post and book parking spaces and manage their stalls and bookings.
- Lead the creation of the database and backend server using sqlite and Flask, and helped the frontend team integrate our API into their code.
- *Utilized*: Python, Flask, JavaScript, CSS, HTML, full stack

World Of Wordle Java Application [GitHub]
📅 September 2022 - December 2022

- Created a wordle-inspired Java application with extended options to play simultaneously with one, two, or three boards.
- Utilized Java Swing to create a GUI whereguesses are color populated based on their accuracy and included serialization of game state to allow time-interupted playing.
- Created a unit testing suite with 100 percent code coverage.
- *Utilized*: Java, JUnit, json Serialization, Event Logging, Software Construction

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

- Utilized historical datasets to create optimal shipping routes that avoid 90 percent of zooplankton hotspots using ArcGIS Pro software.
- Developed a cost-surface raster layer that was minimized for distance and plankton abundance that contributed novel findings to the academic knowledge base.
- *Utilized*: ArcGIS Pro, Spatial Statistics, Story Maps, Python, Research

EDUCATION

3rd Year Bachelor of Computer Science (BCS)
University of British Columbia, GPA: 4.3/4.3

📅 September 2022 – May 2025

BSc. Environmental and Conservation Sciences in Conservation Biology
University of Alberta, GPA: 3.7/4.0

📅 September 2017 – May 2022

SKILLS/COURSEWORK

Python | R | HTML | CSS | Java | JavaScript | SQL | REST APIs | Flask | NLP | Machine Learning | Git/GitHub | Visual Studio Code | JUnit | dplyr | tidyverse | ggplot2 | pandas | Problem Solving | Spatial Statistics | Data Visualization | Algorithms | Data Cleaning | Regression Analysis | Data Structures | Functional Programming

OTHER WORK

Circuit Sculptures
Personal Hobby

📅 January 2023 – Ongoing

- Creating artistic electronic sculptures using IC chips, copper wire, LEDs, clocks, etc.
- Individually designing all stages of the sculptures; including configuration, prototyping, soldering.

NASA Space Apps Web App [GitHub]
📅 October 2022 (Hackathon)

- Lead the creation of a JavaScript game using Phaser3 that allows for player navigation with health depreciation when obstacles are hit.
- Incorporated real solar data from NASA sattelites to trigger the intensity and type of obstacles present in the game.

Fridge Poetry App [Web App]
📅 August 2022 (Hackathon)

- Created a simple web app using HTML, CSS, and JavaScript that allows users to drag and drop personalized words to create fridge poetry.
- Incorporated sharing of a user's poetry in the browser by saving the current state of the frame as an image.