

MEGAN SORENSON

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EDUCATION

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| University of British Columbia <i>Bachelor of Computer Science (BCS)</i> | 2022 - 2025 4.2/4.3 GPA |
| University of Alberta <i>Bachelor of Science in Environmental and Conservation Sciences</i> | 2017 - 2022 Graduated With Distinction |

WORK EXPERIENCE

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| Software Engineering Intern, Netflix | June 2024 – August 2024 Los Gatos, California |
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- Incoming intern for the Software Lifecycle Innovation Team.

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| Software Developer Co-op, SAP | May 2023 – August 2023 Vancouver, BC |
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- Incorporated a new data source into processing pipeline/microservice, including manifest configuration with updated authorizations and sql mapping.
- Added a Microsoft Teams notification service for a backend engine which **eliminated a 30 minute code validation** with every deployment.
- Upgraded Linux Kernel and Python version (3.6 to 3.11) across codebase without impacting production.
- Wrote Python unit tests to **increase code coverage from 53% to 96%** using unittest and mock frameworks.
- **Utilized:** Python, SQL, REST API, Jenkins, SonarQube, Honeycomb, Agile

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| Machine Learning Developer Co-op, SAP | January 2023 – April 2023 Vancouver, BC |
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- Fully migrated a deprecated ML microservice onto a new platform (Azure Databricks and Data Lake) to continue service of product.
- Created a cluster analysis POC leading to the creation of an AI/ML innovation team to produce similar POCs for relevant business problems.
- Retrained NLP classification models in **4 different languages by adding 500,000 new labeled data points**.
- **Utilized:** Python, SQL, Azure ML Services, DBMS and Data Lakes, scikit-learn

PROJECTS

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| Gesture Based Browser Utility – First Place BCS Hackathon 2024 | GitHub |
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- Created an ML layer to process TensorFlow hand pose detection data to control tab-switching, page scrolling, and page zooming in Chrome via webcam.
- **Utilized:** TensorFlow, Flask, React, Chrome API

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| AI-Powered Recipe Suggestions – Second Place nwHacks 2024 & Redbrick Sustainability Award | GitHub |
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- Integrated multiple custom OpenAI Assistants into a Chrome Extension that scraped recipe data from any recipe page to provide more sustainable ingredient options.
- **Utilized:** OpenAI Assistants, Flask, React, Prompt Engineering

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| Optimal Shipping Routes through the Atlantic | esri StoryMap |
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- Created least-cost paths through the Atlantic to avoid zooplankton hotspots by creating custom cost and buffer raster layers.
- **Utilized:** ArcGIS Pro, Python, R

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, C++, SQL, Java, C, R, GLSL, HTML/CSS

Backend & Databases: Flask, Node.js, Express.js, PostgreSQL, Oracle DB, Azure Data Lake

ML/AI: TensorFlow, OpenAI API and Assistants, Databricks with Azure, scikit learn

Developer Tools & Testing Frameworks: Postman, VS Code, GitHub, unittest, JUnit

Other Skills & Interests: Computer Graphics, Data Science, GIS

PUBLICATIONS

Can intake data inform on impacts of repeated subsidized onsite spay-neuter clinics for dogs? (2023) – First Author [\(link\)](#)