

# Sienna Wishart

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## SKILLS

### Programming

Python, C++,  
SQL, Octave

### Technologies

Scikit-Learn,  
Pandas, NumPy,  
Seaborn,  
Matplotlib,  
Jupyter Notebook

### Product

User Research,  
Stakeholder  
Interviews,  
Prototyping

## EDUCATION

### University of Waterloo

BASc, Systems Design  
Engineering,  
Sep 2017 - Apr 2022

### Relevant courses:

Data Structures and Algorithms,  
Human Factors in Design

Stanford University  
Machine Learning,  
Coursera

Python for Data Science and Machine Learning Bootcamp, Udemy (in progress)

## INTERESTS

Travelling,  
bouldering,  
cooking, volleyball

## EXPERIENCE

### Medical Physics Co-op

#### Grand River Cancer Center

Jan 2020 - Mar 2020  
Kitchener, ON

- Modelled stereotactic radiosurgery using Monte Carlo simulations to produce radiation dose curves and profiles to improve radiation treatment planning efficiency and accuracy
- Improved automation scripts for radiation treatment planning using **Python**, **C#**, and **Varian API**

### Group Benefits Digital Product Co-op

#### Manulife Financial

Jun 2019 - Aug 2019  
Kitchener, ON

- Created desktop Personal Life insurance application using user-centered design methodology, repurposed for 7 products, projected to increase sales by 30% over 5 years
- Re-designed the Plan Member site using web analytics, stakeholder interviews, and Axure RP, impacting over 6.4M plan members
- Collaborated with internal stakeholders across multiple teams to update triggered communications reaching 6.4M plan members using Axure RP

### Application Analyst Co-op

#### Sun Life Financial

Sep 2018 - Dec 2018  
Toronto, ON

- Facilitated the implementation of a database sync tool with a \$31,000 budget through coordinating a multi-disciplinary team, facilitating team meetings, and tracking deadlines
- Migrated 106 database users to the new data source, saving \$6,600 and 1TB annually using **Apache Hive** query operations

### Technical Implementation Specialist Co-op

#### ACS Athletics

Jan 2018 - Apr 2018  
Stouffville, ON

- Developed **SQL** scripts in production database to address client data issues, fix duplicate values, and performed ETL pipelining with extracted client data
- Assisted professional NBA, MLS, and NCAA coaches with recruiting and inventory management using **Microsoft SQL Server**

## PROJECTS

### COVID-19 Prediction and Analysis

Apr 2020 - Present

- Cleaned and analyzed global COVID-19 data, producing data visualizations to identify epidemiologic trends using **Python**, **Pandas**, **Seaborn**, **Matplotlib**, and **Jupyter Notebook**
- Performed time series forecasting using **Prophet** to predict world-wide infection rates

### Shottle

Sep 2017 - Dec 2017

- Designed a specialized, 3D printed bottle to encourage users to stay hydrated, using life-cycle and user-centred design methods

## COMMUNITY

### Operations Lead

#### Biotechnology and Bioengineering Conference (BioTEC)

Jan 2019 - Present  
Waterloo, ON

- Coordinated logistics, designed event content, and acquired speakers for an undergraduate conference, attended by over 200 delegates
- Trained 24 volunteers and team members over two sessions to deliver 9 events