

# DAISY MA

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## EDUCATION

### University of British Columbia

B.Sc Computer Science *GPA: 4.2*

Vancouver, BC

Sept 2018 - Dec 2023

*Coursework:* Machine Learning and Data Mining(2023), Advanced Relational Databases(2023), Computer Vision(2023), Introduction to Computer Networking(2023), Algorithm Design and Analysis(2020)

## WORK EXPERIENCE

### Copperleaf Technologies

*Software Developer Co-op*

Vancouver, BC

May 2022 - Dec 2022

- Full-stack software development with C#/.NET and Angular in Visual Studio.
- Designed and implemented 10+ REST APIs for an engine that helps users to analyze and optimize investments. Created isolated, readable unit tests to thoroughly test the code.
- Wrote dynamic hierarchical SQL query to detect circular dependency in Oracle DB.
- Resolved 10+ complex backend/frontend/DB bugs, maintaining effective communication with QA throughout.
- Built frontend components such as data grid within Angular framework. Communicated with UI designer to ensure correct UI behaviour and improve UX.
- Helped construct a new database schema using Oracle SQL.
- Presented a new team-developed feature to the entire engineering team in a clear and concise manner.

### Broadcom Software

*Software Developer in Test Co-op*

Vancouver, BC

Sept 2021 - April 2022

- Wrote and maintained 40+ automated tests using Selenium.
- Wrote 50+ robust REST API tests in Pytest, covering comprehensive positive, negative, and permission scenarios.
- Adapted to agile practices such as sprint planning and daily standups in a fast paced scrum team.
- Familiar with CI/CD tools such as GitHub and TeamCity.
- Identified and reproduced product defects and accurately reported on JIRA.

## SKILLS

|                        |   |
|------------------------|---|
| Programming Languages: | Python, Java, C#/.NET, C/C++, SQL                                       |
| Frontend:              | Typescript, Angular, HTML/CSS   |
| Testing:               | Selenium, JUnit, MSTest, Pytest   |
| Tools/Environment:     | Github, Visual Studio, Oracle, TeamCity, Azure DevOps, Jupyter Notebook |

## PROJECTS

### Personal Project - File Organizer 2024 *Python*

<https://www.youtube.com/watch?v=3MEt3rxmeFc>

<https://github.com/daisyuma/File-Organizer>

A python automation script that manages newly downloaded files by gathering similar ones and neatly organizing them into a designated folder. It also identifies duplicate files and prompts users for deletion, optimizing disk space usage.

### Co-op Project - Server Status Dashboard 2022 *Python, Flask, HTML/CSS*

Built a Flask webpage that displays the status of multiple servers in the company. Utilized asynchronous programming to retrieve and render each server's status in the frontend. It also includes user authentication.

### Hackathon - Company Hackathon 2021 *Python Pandas, Python bokeh*

In a team of 4, built a script that gathers automation test reports, generates a visualization of the data, and emails the visualized data to registered users.

### Hackathon - BizHacks 2020 *Java, Java Swing*

<https://github.com/daisyuma/BizHack-Project>

In a team of 4, designed and implemented a program modeling an online sales associate at Best Buy. The algorithm recommends products based on user's answers to a series of questions.

### School Project 2020 - Facebark *PHP, SQL*

<https://github.com/daisyuma/Facebark>

In a group of 3, used relational database to implement a social media platform named Facebark that stores information about dogs and their owners. Used MySQL queries to return aggregated dog information.