

KATHARINE ZHONG

Second Year - Computer Software Engineering Co-op

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Engineering Co-op Program

PROJECT EXPERIENCE

Recipe Website Project

HackED Hackathon

Jan 2023 – Jan 2023

Edmonton, AB

- Developed an archive-style interactive recipe website, with an idea of using **machine learning** to sift through recipes and **web scraping** to gain more recipes in the archive.
- Worked with a team of five to create a website using **HTML**, **CSS**, and **Javascript** alongside **GitHub** for collaboration, playing a lead role in fleshing out project idea.
- Utilized **Figma** and **Canva** to create a UX design mock-up, as well as design of team logo and general look of website.

Google Chrome Extension Project

Personal

Dec 2022 – Present

Edmonton, AB

- Designing a Google Chrome extension that blocks a hardcoded URL using **HTML**, **CSS**, and **Javascript**, working with **JSON** and **APIs** to obtain the desired functionality.
- Reinforcing computer technology abilities through connecting different programming languages and utilizing **web technologies** and **extension components**.

Kick Off Project: AlbertaSat Ground-Station Software

AlbertaSat

Sept 2022 – Present

Edmonton, AB

- Applying various programming-related tools, for example, **Python**, **React**, and **Git**, to satellite-related projects for awareness of technical aspects of various **subsystems**.
- Enhancing **full-stack development** skills with an emphasis on **back-end** development, by employing use of various **programming languages**, **frameworks**, and **REST APIs**, while gaining familiarity with **object oriented** programming and networking concepts like **TCP** and **IP**.

COMMUNITY INVOLVEMENT

Senior Cadet

699 Jasper Place Royal Canadian Air Cadet Squadron

Sept 2016 – Jul 2019

Edmonton, AB

- Led a flight of **30+** cadets on and off parade square, holding meetings addressing concerns in preparation for parade or in response to questions or issues for example regarding proper uniform maintenance or wear or correct drill.
- Taught air, leadership, and survival-related classes in-person and remotely to groups of **20+** cadets by adopting various methods to keep a large group engaged.

President/Chief Editor of MacSource News

Archbishop MacDonald High School

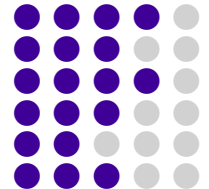
Aug 2020 – Jul 2019

Edmonton, AB

- Redesigned and updated the MacSource website, getting up to 200 views per week in Canada and internationally, using a combination of website template and **HTML**.
- Established new ground rules and standards for team and implemented throughout year by communicating with members and addressing issues as needed.

PROGRAMMING LANGUAGES

Python
C++
HTML
CSS
Javascript
LaTeX



AWARDS

- Faculty of Engineering Inspiring Leadership Award (2021)
- Alexander Rutherford Scholarship (2021)
- Duke of Edinburgh International Bronze Award (2021)
- Archbishop MacDonald Outstanding Service Award (2021)
- Cadet League Service Award (2020)
- Archbishop MacDonald Magna Cum Laude (2019-2021)

STUDENT CLUBS



Fem+ Engineering Mentorship Program
Mentor



AlbertaSat
Admin and on-boarding
Software Team Member



NeurAlbertaTech
Volunteer



Diversity in Engineering Club
General Member

MORE INFO

Mandarin Chinese (fluent)

French (basic)

Class 5 License (Clean Abstract)