# Katharine Zhong

SECOND YEAR · COMPUTER SOFTWARE ENGINEERING CO-OP STUDENT

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## Technical Skills & Achievements \_\_

Programming & Scripting Languages: Python, C/C++, HTML/CSS, Javascript, LaTex, MATLAB, VHDL

Developer Tools: Unix/Linus, Git, VIM, VS Code, Shell (Bash), Microsoft Office

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

### **Education**

University of Alberta Edmonton, AB

BSc in Computer Software Engineering Co-op

Sept 2021 - Current

• Relevant Courses: Introduction to Tangible Computing I & II; Formal Systems and Logic in Computing Science; Introduction to Microprocessors; Introduction to Digital Logic Design; Continuous Time Signals and Systems; Electrical Circuits I; Calculus I, II, & III; Applied Linear Algebra

## Project Experience \_\_\_\_\_

**Recipe Website Project** 

Edmonton, AB

HackED Hackathon

Jan 2023 - Jan 2023

- Developed an archive-style interactive recipe website, with an idea of using machine learning to sift through recipes based on website filters
  set by the user 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 employing GitHub for collaboration, playing a lead
  role in fleshing out project idea, website purpose, and functionality.
- 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**

Edmonton, AB

Personal

Dec 2022 - Present

- 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: Ground-Station Software**

Edmonton, AB

AlbertaSat

Sept 2022 - Present

- 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 objected-oriented programming and networking concepts like TCP and IP.

## **Community Involvement**

#### 699 Jasper Place Royal Canadian Air Cadet Squadron

Edmonton, AB

Senior Air Cadet

Sept 2016 - Jul 2019

- 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.
- Mentored next-generation senior cadets by giving advice and recommendations for leadership opportunities and assessments such as for instructing classes or leading flights.

#### **Archbishop MacDonald High School**

Edmonton, AB

President/Chief Editor of MacSource News

Aug 2020 – Jul 2019

- 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**.
- Designed to be flexible to any case with low time complexity compared to the existing models which were only useful in specific scenarios.
- Established new ground rules and standards for team and implemented throughout year by communicating with members and addressing issues as needed.

APRIL 15, 2023