

# Allison Zhao

289-652-8894 | [allisonzhao.uni@gmail.com](mailto:allisonzhao.uni@gmail.com) | [linkedin.com/in/allison](https://www.linkedin.com/in/allison) | [github.com/allison](https://github.com/allison) | [devpost.com/allison](https://devpost.com/allison)

## EDUCATION

<b>Bachelor of Computer Science (Co-op)   McMaster University</b>	Sept. 2022 – Present
4.0 GPA	
<b>Advanced Placement Program   John Fraser Secondary School</b>	Sept. 2018 – June 2022

## PROJECTS

<b>Integral Visualizer</b>   <i>Elm</i>	January 2023 – April 2023
<ul style="list-style-type: none"><li>• Prototyped and built an easy-to-use integral graphing calculator based on the Riemann sum technique</li><li>• Wrote code that served as the basis of the interactive graph</li><li>• Ensured the Design Thinking process was followed throughout prototype development</li><li>• Helped 20+ peers improve their understanding of integration and the Riemann sum technique</li></ul>	
<b>Enviroclean</b>   <i>Python, Kivy</i>	Feb 2022 – June 2022
<ul style="list-style-type: none"><li>• Collaborated with a team of three to develop an Android app aimed to promote proper recycling habits</li><li>• Implemented user interface and live barcode scanning feature using Python and Kivy</li><li>• Documented team progress, identified areas of focus, and set project goals each week</li></ul>	
<b>Hopitivity</b>   <i>HTML, CSS, Javascript, Bootstrap</i>	September 2021
<ul style="list-style-type: none"><li>• Built a productivity website during the pandemic helping students concentrate on their studies</li><li>• Designed the UI using Figma and recreated it with Javascript, HTML, CSS</li><li>• Made interactive buttons with Javascript</li></ul>	

## EXPERIENCE

<b>Undergraduate Research Assistant</b>	May 2023 – Present
<i>McMaster University</i>	
<ul style="list-style-type: none"><li>• Working alongside Professor Christopher Anand and PhD Candidate – Curtis D’Alves to optimize various math functions using IBM’s POWER processor</li><li>• Improved scheduling of math functions from the POWER library by 3x</li></ul>	
<b>Coding Mentor</b>	June 2023 – June 2023
<i>STaBL Foundation</i>	
<ul style="list-style-type: none"><li>• Planned and hosted coding workshops for over 100 students in several local school districts</li><li>• Coordinated with instructors and volunteers to ensure a valuable learning experience for participants</li><li>• Curated relevant resources before each workshop to create teaching material appropriate for classes with varying coding experience</li></ul>	
<b>Student Ambassador</b>	May 2023 – May 2023
<i>McMaster University</i>	
<i>May At Mac</i>	
<ul style="list-style-type: none"><li>• Became student representative of the Computer Science department showcase booth</li><li>• Connected with incoming first-year students, answered questions, and provided advice</li></ul>	

## ACHIEVEMENTS

<b>Dean’s List</b>   <i>McMaster University</i>	2023
<b>Undergraduate Student Research Award</b>   <i>Natural Sciences and Engineering Research Council of Canada</i>	2023
<b>Engineering Award of Excellence Scholarship</b>   <i>McMaster Faculty of Engineering</i>	2022
<b>Biomedical Laboratory Science 5th place</b>   <i>HOSA Canada</i>	2021
<b>Creative Problem Solving 3rd place</b>   <i>HOSA Canada</i>	2020

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, Python, C, SQL, Java, Haskell, Elm  
**Frameworks:** Doxygen, Regex, Pytorch, TensorFlow, Bootstrap  
**Tools:** GitHub, Git, Bash, Figma, MS Office