

Allison Zhao

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EDUCATION

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

PROJECTS

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

EXPERIENCE

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

ACHIEVEMENTS

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