Allison Zhao

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Education

Bachelor of Computer Science (Co-op) | McMaster University Sept. 2022 – Present
11.9/12.0 GPA

Advanced Placement Program | John Fraser Secondary School Sept. 2018 – June 2022

Projects

Integral Visualizer | *Elm* January 2023 – April 2023
- 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 | *Python, Kivy* Feb 2022 – June 2022
- 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 | *HTML, CSS, Javascript, Bootstrap* September 2021
- 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 May 2023 – Present
McMaster University
- Built Coconut (Code Construction User Tool) into a versatile cross-platform framework
- Developed and tested important functions found in the POWERMath library for Coconut
- Transformed z/Architecture assembly instructions into concise mathematical expressions for symbolic evaluation

Coding Mentor June 2023 – June 2023
STaBL Foundation
- 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 May 2023 – May 2023
McMaster University *May At Mac*
- Represented the Computer Science department at the Engineering showcase booth
- Connected with incoming first-year students, answered inquiries, and provided valuable advice

Achievements

Dean's List | *McMaster University* 2023
Undergraduate Student Research Award | *Natural Sciences and Engineering Research Council of Canada* 2023
Engineering Award of Excellence Scholarship | *McMaster Faculty of Engineering* 2022
Biomedical Laboratory Science 5th place | *HOSA Canada* 2021
Creative Problem Solving 3rd place | *HOSA Canada* 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