Alicia Tran

(647) 779-9840 | trana41@mcmaster.ca | linkedin.com/in/trana41 | github.com/alicia4550

EDUCATION

BACHELOR OF ENGINEERING, SOFTWARE AND BIOMEDICAL ENGINEERING
McMaster University, Hamilton ON

- Enrolled in 3rd year of the 5-year Integrated Biomedical Engineering and Health Sciences co-op program
- Cumulative grade point average of 9 on 12 point scale

RELEVANT COURSES

DIGITAL SYSTEMS AND INTERFACING

- Hardware/software co-design and application-specific processors
- Interfacing to I/O devices

SOFTWARE ENGINEERING PRACTICE AND EXPERIENCE

- Solve computational problems with an experimental approach
- Theoretical/algorithmic analysis

DATA STRUCTURES AND ALGORITHMS

- Introduction to algorithmic design strategies
- Correctness and performance analysis

LANGUAGES/ SOFTWARE

- Java
- Python
- C
- C#
- MATLAB
- HTML
- CSS
- JS
- Git
- Unity

EXPERIENCE

RESEARCH & DEVELOPMENT VOLUNTEER
Imaginable Solutions, September 2020 – Present

- Member of Software Sub-team responsible for optimization of Guided Hands™
- Brainstorm cross-discipline solutions for stabilization of product

WEBSITE ADMINISTRATOR
McMaster Software Engineering Society, August 2020 – Present

- Maintain current SES website with up-to-date content
- Improve layout for a more user-friendly flow of site

GAME DEVELOPER
Canada Revenue Agency, May 2020 – Present

- Utilize Unity game engine to create interactive web-based game to teach young Canadians about taxes
- Optimize game based on feedback received from internal pilot of 100 participants

WEBSITE DEVELOPMENT LEAD
McMaster Makers, August 2019 – Present

- Create a site using HTML, CSS, and JS to advertise club activities and promote club membership
- Use Google Firebase to implement log-in system and event registration for club members

PROJECT WORK

HACK THE NORTH COMPETITOR
September 2019

- Worked alongside team to create an application that uses a machine learning model created by the Microsoft Azure API to distinguish between different types of waste
- Idea and team were sponsored by RBC

TOHACKS COMPETITOR
June 2019

- Used Microsoft Azure Virtual Machine to develop a system to prevent crime and provide a quick response to threats using machine learning classification algorithms in real-time
- Achieved 1st place in the competition