

## Highlights of Qualifications

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- Currently in the fourth year of a five-year software engineering co-op program at McMaster University
- Experience with Java, Bash, and source code repository systems
- Experience working with and developing applications for Windows, Linux, iOS, and Android
- Strong communication, organizational, and presentation skills developed by my past experiences

## Education

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Hamilton, ON	McMaster University	Expected Graduation April 2022
<ul style="list-style-type: none"><li>• B.Eng. in Software Engineering (Co-op)</li></ul>		

## Work Experience

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President	McMaster Engineering Society	March 2020 – March 2021
<ul style="list-style-type: none"><li>• Set the vision and direction of the MES for the upcoming year within the scope of complimenting student education through efficient use of our three-quarter million dollar budget; providing and supporting mental &amp; physical wellness, academic advocacy &amp; equity, social events, technical &amp; non-technical engineering involvement, and engineering student culture &amp; traditions.</li><li>• Led a team of eight Executives/Associate-Executives, providing guidance for their initiatives, ensuring a supportive and open team dynamic, and building strong communication skills.</li><li>• Successfully represented our 5500+ students to McMaster University as well as to provincial and federal organizations on academic concerns and legislation.</li></ul>		
Program Support Assistant	McMaster University	March 2020 – August 2020
<ul style="list-style-type: none"><li>• Ran the virtual McMaster Engineering undergraduate summer research program for over 100 students.</li><li>• Promoted student engagement, particularly as related to the virtual and in-person engagement of students with clubs, teams, and competitions while maintaining safety protocols.</li><li>• Managed the logistics of delivering over 4000 Welcome Week packages across Canada to incoming first year students, demonstrating strong organizational skills.</li><li>• Assisted in organizing self-paced learning modules and daily, live, interactive tutorials led by upper year engineering students for over 300 incoming first year students.</li></ul>		
Vice President Academic	McMaster Engineering Society	March 2019 – March 2020
<ul style="list-style-type: none"><li>• Worked effectively as part of an executive team to lead the society through recent provincial regulations negatively impacting student societies, while greatly improving the value of offered services.</li><li>• Liaised with the Dean, Associate Deans, and Faculty heads regarding academic issues impacting over 5500 students such as curriculum changes, academic fairness, and program restructuring.</li><li>• Organized and assisted all major academic initiatives of the Faculty of Engineering and the McMaster Engineering Society.</li></ul>		

## Projects

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- **alexmoica.com (2020):** Personal professional website created to increase my internet presence while better advertising myself to potential employers. Written in pure HTML & CSS, implementing JavaScript for various animations and transitions. *Skills developed: HTML, CSS, JavaScript, Photoshop*
- **FriendFinder (2020):** Desktop application implementing graph data structures and Dijkstra's algorithm to find the shortest path from a user's current position to a designated location so that they would connect with an optimal number of friends on the way. *Skills developed: Java, Documentation, Git*
- **Food Image Recognition (2019):** Machine learning application created to distinguish between a variety

of fruits and vegetables. Based on Tensorflow and using the CIFAR-100 database for training images, this application identifies user images, entered through a Tkinter GUI, by food type. *Skills developed: Tensorflow, Python, Git*

## Activities & Leadership

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### Director of Public Relations      McMaster Engineering Society      April 2018 – March 2019

- Grew social media channels by over 40 000 engagements, and exemplified leadership and oral communication skills through communicating effectively with over 5000 students to create and promote events and activities.
- Organized MES representation to promote the McMaster Engineering Society and the engineering profession at EngFest, Faculty of Engineering Open Houses, and MES charity events.
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- Coordinated all outreach, media recognition, ambassadorship, and mentorship programs of the McMaster Faculty of Engineering and the MES.

### Design Coordinator      McMaster Engineering Competition      Feb. 2018 – Nov. 2018

- Implemented a creative and innovative challenge idea that tackles one of societies biggest engineering-related problems while offering aspiring engineers invaluable experience that builds confidence and competence in engineering.
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- Created guiding documents, designed & constructed the testing apparatus used for judging the competitors submissions, and led the team of volunteers that kept the competition running smoothly.

### Computer Science Mentor      Google & McMaster Outreach      Oct. 2017

- Mentored ~50 students from Huntington Elementary School in grades 5 to 8 on functional programming and how to understand and employ Elm, a programming language that compiles to HTML, CSS and JavaScript to create animated scenes.
- Taught students how to define functions and variables, employ mathematical concepts into their code, and manipulate objects properties under the supervision of Dr. Christopher Anand through the McMaster Outreach Program.

## Skills Overview

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- **Industry Tools:** *Linux (Ubuntu/Debian), Git, Tensorflow, Eclipse, LaTeX, Doxygen, Flutter, Android Studio, Photoshop/GIMP, Database Management Systems (IBM db2)*
  - **Technical Skills:** *C, Python, Java, Bash, Go, HTML, CSS, JavaScript, NASM, ARM LEGv8, Verilog, Dart, MATLAB, Maple, Discrete Math, Data Structures & Algorithms, Requirements Specification, Software Validation & Verification*
  - **Non-Technical Skills:** *Team Leadership, Technical Writing, Documentation, Accountability & Reporting*
  - **Personal Skills/Hobbies:** *Romanian (Fluent), French (Intermediate), Muay Thai (4 years), Skateboarding, Classical & Electric Guitar, Reading, Running*

## Achievements

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- Led the MES response to COVID-19 in an effort to continue providing our services to students and to keep them socially connected throughout the campus closure of McMaster University.
  - As part of a team, successfully responded to the Student Choice Initiative policy implemented by the provincial government in 2019 (repealed) with a 71% retention in student MES membership.
  - Finished the Waterloo Harvest Half 2019 half-marathon with a 5:21 pace.