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## Education

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

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## Work Experience

President	McMaster Engineering Society	March 2020 – Present
<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 seven Executives/Associate-Executives, providing guidance for their initiatives while ensuring a supportive and open team dynamic.</li><li>Represented our 5500+ constituents 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>Actively engaged in the virtualization of the McMaster Engineering undergraduate summer research program.</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>Welcomed the incoming cohort to the Faculty of Engineering through programs such as the MES Summer Mailout and EMBER (self-paced learning modules and daily, live, interactive tutorials led by upper year engineering 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 and efficiency 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/assisted all major academic initiatives of the Faculty of Engineering and the McMaster Engineering Society.</li></ul>		

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## Projects

- 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

<b>Director of Public Relations</b>	<b>McMaster Engineering Society</b>	<b>April 2018 – March 2019</b>
<ul style="list-style-type: none"><li>• 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.</li><li>• Organized MES representation to promote the McMaster Engineering Society and the engineering profession at EngFest, Faculty of Engineering Open Houses, and MES charity events.</li><li>• Coordinated all outreach, media recognition, ambassadorship, and mentorship programs of the McMaster Faculty of Engineering and the MES.</li></ul>		
<b>Design Coordinator</b>	<b>McMaster Engineering Competition</b>	<b>Feb. 2018 – Nov. 2018</b>
<ul style="list-style-type: none"><li>• 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.</li><li>• Created guiding documents, designed &amp; constructed the testing apparatus used for judging the competitors submissions, and led the team of volunteers that kept the competition running smoothly.</li></ul>		
<b>Computer Science Mentor</b>	<b>Google &amp; McMaster Outreach</b>	<b>Oct. 2017</b>
<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>		

## Skills Overview

- **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*
- **Non-Technical Skills:** *Team Leadership, Technical Writing, Documentation, Crisis Resolution, Accountability & Reporting*
- **Personal Skills/Hobbies:** *Romanian (Fluent), French (Intermediate), Muay Thai (4 years), Skateboarding, Classical & Electric Guitar, Reading, Running*

## Achievements

- 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.