ALEX MOICA

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Highlights of Qualifications

- Currently in the final year of the software engineering bachelor's program at McMaster University
- One year of educational software content creation, two years of cloud and web-app software development
- Excellent attention to detail and oral & written communication skills developed through extracurricular involvement and past internships

Education

Hamilton, ON **McMaster University** **Expected Graduation April 2023**

- **B.Eng. in Software Engineering (Co-op)**

Work Experience

Software Developer, Co-op **Clio** **January 2022 – August 2022**

- Worked as part of a team developing Clio's Outlook add-on, enabling lawyers to file millions of emails to their Clio manage platforms.
- Created an endpoint to allow users to re-file individual emails instead of having to re-file all their failed emails in bulk, giving users more control over the emails they choose to file.
- Investigated and logged the top 20 most frequently occurring bugs in the Clio Outlook add-on.
- Performed in-depth technical research and presentations to company developers.
- Ranked most active Codespaces developer within Clio as of April 2022.

Full Stack Course Developer **CreationCamp** **September 2021 – January 2022**

- Planned and created a project-based full stack course with content intended to teach high school students with no prior coding experience how to understand and use HTML, CSS, JavaScript, MongoDB, Express, React, and Node.js to create and host web applications.
- Taught the full stack web development course to high school students in Ontario over a period of 4 months. Every student successfully completed the course having created 2 individual projects and 1 collaborative final project based on the MERN stack.
- Designed 4 modular template websites for use in web development workshops to teach high school students how to understand and use HTML and CSS.
- Planned and hosted a web development workshop for 40+ high school students on the intersection of coding and web technologies with the Not For Profit field.

Cloud Software Developer Intern **SOTI** **May 2021 – August 2021**

- Created, implemented, and maintained application test cases and test coverage based on software requirements and technical specifications for all SOTI's product offerings.
- Worked collaboratively in agile, CICD development teams and independently managed my time to complete tickets related to managing and updating pipelines, updating user interfaces, creating stored procedures, and working on Cloud Management System APIs and Product Orchestration endpoints.
- Migrated the framework of our Cloud Management System solution (comprised of 84 projects), resolving dependencies and fixing any library issues encountered.
- Significantly reduced SQL server calls to under 100 per minute from previously 1000's of calls a minute by implementing application side caching of commonly accessed tables.

Program Support Assistant **McMaster University** **March 2020 – August 2020**

- Ran the virtual McMaster Engineering undergraduate summer research program for over 100 students.

- Promoted student engagement, particularly as related to the virtual and in-person engagement of students with clubs, teams, and competitions while maintaining safety protocols.
- Managed the logistics of delivering over 4000 Welcome Week packages across Canada to incoming first year students, demonstrating strong organizational skills.
- 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.

Projects

- **Ebook Genesis (2021):** Python bot that can find and download any ebook from just its name. Using Internet Relay Chat channels to crawl existing ebook repositories and enabling file transfers through the Direct Client-to-Client sub-protocol of IRC. One of the only functioning, open-source, IRC ebook bots. *Skills Developed: Python, Networking, Git*
- **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, DNS, Networking*
- **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

President   **McMaster Engineering Society**   **March 2020 – March 2021**

- Set the vision and direction of the MES for the upcoming year within the scope of complimenting student education through efficient use of a three-quarter million dollar budget; providing and supporting mental & physical wellness, academic advocacy & equity, social events, technical & non-technical engineering involvement, and engineering student culture & traditions.
- 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.
- Successfully represented our 5500+ students to McMaster University as well as to provincial and federal organizations on academic and social concerns.

Skills Overview

- Industry Tools: *Linux (Ubuntu/Debian), Git, Codespaces, Microsoft Server Management Studio, Jira, Pipeline Management (Jenkins, GoCD), AWS DevOps, PostgreSQL, Django, Ruby on Rails*
- Technical Skills: *C#, C, SQL, Python, Ruby, Java, Bash, Go, HTML, CSS, JavaScript, Typescript, React, Ajax, AngularJS*
- Non-Technical Skills: *Team Leadership, Technical Writing, Documentation, Accountability & Reporting*
- Personal Skills/Hobbies: *Romanian (Fluent), Muay Thai, Skateboarding, Electric Guitar, Graphic Design, Reading, Running*