ALEX MOICA

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Highlights of Qualifications

- Two years of web-app software development, two years of full-stack development and content creation

- Most skilled in: Python, Java, JavaScript, HTML/CSS, SQL, Django

- Excellent attention to detail and oral & written communication skills developed through extracurricular involvement and past internships

Education

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

- **B.Eng. in Software Engineering (Co-op)**
  - Capstone project awarded Best Engineering Design

Work Experience

Software Developer   **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, CI/CD 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.

Projects

- **Utrition (2023):** Open source project that allows users to track their progress towards their health goals. Users can upload a picture, speak, or type out what they ate in natural language, and Utrition provides all the nutritional data of the meal and saves it in the user's profile. The profile contains data visualizations and metrics to assist users in tracking their nutrition goals. *Skills Developed: Machine Learning, Image Recognition, API calls, Flask, Python, JavaScript, HTML/CSS*

- **Questly (2022):** Web application designed to assist middle school teachers in delivering computer science education to their students. Questly offers an online classroom management system along with grade-specific computer science content, modules, and assessments. Additionally, it provides problem walkthroughs, progress tracking, and grade reporting to teachers. *Skills Developed: Django, Python, JavaScript, HTML, CSS, UX/UI, Product to Market, Requirements Analysis*

- **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, Jira, CI/CD, AWS DevOps, PostgreSQL, MySQL, Django, Ruby on Rails, .NET*

- Technical Skills: *C#, C, Python, Ruby, Java, Bash, SQL, HTML, CSS, JavaScript, Typescript, REST API design, Node.js, jQuery, React*

- Non-Technical Skills: *Team leadership, Software documentation, Project management, Agile methodology, Conflict resolution*

- Personal Skills/Hobbies: *Romanian (Fluent), Muay Thai, Public speaking, Graphic design, Guitar, Reading, Running*