

# Alex Moica

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## EXPERIENCE

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### Software Developer III

Fullscript | August 2023 - Present

- Consolidating data flows across a large healthtech platform with millions of users to better track, identify, and predict user behaviour.

### Founder

Noo Speak | January 2024 - June 2024

- Created [noospeak.com](https://noospeak.com), a language learning newsletter web-app in Django over 5 months, growing to over 1000 active users with a 5x industry standard open rate and 10x click through rate. As a result, I became highly proficient in all aspects of building a technical product, including full stack development, QA, CI/CD, DevOps, user testing, scalability and reliability of service, version control, cybersecurity, API development, database management, monitoring/logging, UX/UI design, and more.

### Software Developer

Aversan | November 2023 - January 2024

- 3-month contract to lead the biometric software testing for medical devices, covering tool validation, unit testing, static analysis, SAST and SCA remediations, and the creation of test documentation.

### Development Lead

SGAC | June 2023 - October 2023

- Led the development of pathfinding algorithms for autonomous lunar rovers, with a focus on demonstrating the efficiency and collision avoidance benefits of 4D LIDAR in rover swarms.
  - Publication: <https://iafastro.directory/iac/paper/id/76972/summary/>
  - Github: [https://github.com/alexmoica/LunarLiDAR\\_IAC/](https://github.com/alexmoica/LunarLiDAR_IAC/)

### Software Developer

Clio | January 2022 - August 2022

- Developed Clio's Outlook integration following SCRUM methodology with a team of 4 developers, enabling clients to seamlessly file millions of emails to Clio's management platform.
- Designed and implemented an endpoint feature for selective re-filing of individual emails, enhancing user control and addressing a critical user concern.
- Identified and resolved the top 20 major reported issues for the Clio Outlook integration.

### Full Stack Course Developer

CreationCamp | September 2021 - April 2022

- Developed and taught a 4-month long full stack web development course for a class of high school students, covering HTML, CSS, JavaScript, MongoDB, Express, React, and Node.js.
- Designed, developed, and taught web development workshops to 100+ high school students.

## Cloud Software Developer Intern

SOTI | May 2021 - August 2021

- Migrated 84 backend frameworks to .NET, resolving dependencies and writing full test coverage.
- Implemented application-side caching, and performed data analysis to show a reduction of over 90% in SQL server calls per minute.

## President

McMaster Engineering Society | March 2020 - March 2021

- Led a 28-person team in managing a \$750,000 budget to enhance student education and support various areas such as wellness, advocacy, events, and engineering culture.
- Advocated on behalf of over 5,500 students to McMaster University, adjudicatory bodies, and provincial/federal organizations regarding legal, academic, and social issues.

## EDUCATION

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**Bachelor of Engineering (Software Engineering)** • McMaster University

## PUBLICATIONS

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Oussema Jouni, **Alex Moica**, Gavin Furtado, Eshana Mariam John, Varsha Santhosh, Daniel Asante, KangSan Kim, and Solomon Appekey. (2023) [4D LIDAR and Sensor Fusion for Autonomous Rover Missions](#). 74th International Astronautical Congress

## PROJECTS

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Language learning software used by Ontario teachers, a newsletter web app used by 1500+ daily users, a local all-in-one organization system, and more! See my projects on my website: <https://www.alexmoica.com/#projects>

## SKILLS

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**Technical Skills:** Python, Ruby, Java, JavaScript, HTML, CSS, React, Vue.js, Node.js, ROS2, Django, Ruby on Rails, SQL, PostgreSQL, MySQL, MongoDB, Snowflake, RudderStack, Gladly, Docker, Linux (Ubuntu/Debian), REST API, Git, GitHub Actions, CI/CD, PyTest, Jest, Cypress, ESLint, Mocha, Prowler, Sinon, Snyk, Unittest, Pytest, RSpec, Jira, Stripe integrations, React Native

**Languages:** English (Native), Romanian (Fluent), French (Limited Working Proficiency)