Alex Moica

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EXPERIENCE

Software Developer III, Backend

Fullscript | August 2024 - Present

- Consolidated data flows across a large healthtech platform with millions of monthly events to better track, identify, and predict user behaviour.
- Developed & maintained internal libraries and tools used by the rest of the engineering teams to deliver events to our CDP.
- Owned the enforcement of event schemas to ensure zero violations across our three platforms, and led my team to quickly respond to incidents as they arose.

Founder

Noo Speak | January 2024 - June 2024

- Created 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/

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

Bachelor of Engineering (Software Engineering) · McMaster University

PUBLICATIONS

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

Language learning software used by Ontario teachers, a newsletter web app used by 3000+ daily users, a local all-in-one organization system, and more! See my projects on my website: https://www.alexmoica.com/#projects

SKILLS

Technical Skills: Python, Ruby, Java, JavaScript, TypeScript, HTML, CSS, React, Vue.js, Node.js, ROS2, Cursor, 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, Internal Library & Tool Development
Languages: English (Native), Romanian (Fluent), French (Limited Working Proficiency)