

# Alastair Lee

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LinkedIn: [www.linkedin.com/in/hon-sum-alastair-lee](https://www.linkedin.com/in/hon-sum-alastair-lee) • GitHub: [github.com/Honsumal](https://github.com/Honsumal) •  
Portfolio: <https://honsumal.github.io/portfolio/>

## SUMMARY

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Full Stack Web Developer with a background in Chemical Engineering. Currently pursuing a certificate in Full Stack Development from the University of Toronto, with skills in JavaScript, MySQL, MongoDB, and Python. Known for being able to work flexibly as a team member or team leader in a fast-paced group. Looking to grow as a programmer by building applications that can help in people's everyday lives. Looking to join a company to leverage my current skills, grow my repertoire, and become a valuable asset.

## TECHNICAL SKILLS

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JavaScript ES6+, CSS3, HTML5, SQL, NoSQL, MongoDB, MySQL, Express, Node, Handlebars, React, jQuery, Bootstrap, Materialize, Python 3

## EDUCATION

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**University of Toronto, School of Continuing Studies, Toronto, ON**

*Certification of Completion of Coding Bootcamp*

Aug 2022 – Nov 2022

- Current Grade: A (99%)

**University of Rochester, Department of Chemical Engineering, Rochester, NY**

*Master of Science in Chemical Engineering*

2020 – 2021

- GPA: 3.5/4.0

*Bachelor of Science in Chemical Engineering*

2016 – 2020

- Graduated with high distinction
- GPA: 3.3/4.0
- Dean's List (Spring 2017)

## PROJECTS

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*The Lending Station*

Nov 2022

GitHub Repository: <https://github.com/sashdc/the-lending-station>

Deployed Site: <https://the-lending-station.herokuapp.com/>

Tools: JavaScript, CSS, SQL, MySQL, Express, Node, Handlebars, jQuery

- Created a functional library site for librarians to store information on their books, their library's readers, and the readers' reviews. Readers are also able to use the site to keep track of the book they have borrowed, what books they have already read, and write reviews on the page.
- Constructed the whole backend of the site, including creating models, seeding, and the create, put, and delete requests for the site.
- Acted as the project's de-facto project manager, setting up a mini-daily scrum, delegating tasks and updating the project's Kanban board and reminded group members to do so when needed.

*News Aggregator Site*

Oct 2022

GitHub Repository: <https://github.com/Honsumal/news-headline-aggregator>

Deployed Site: <https://honsumal.github.io/news-headline-aggregator/>

Tools: JavaScript, CSS, HTML, Materialize

- Created a site that allows users to search up Canadian news by important headlines. Users are given the option to do a simple search or an advanced search where the user includes a theme

- and a location to append to their search
- Worked on getting the news API to properly make requests and feed that to a function that would display the headlines onto the site.
- Learned to use Materialize CSS to style the page and designed the page to effectively convey the requested information without distracting the user.

## WORK EXPERIENCE

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### **University of Rochester, Rochester, NY**

#### *Research Assistant, Computational Fluid Dynamics Group*

Aug 2019 – May 2021

- Analyzed fluid flow in 30 patient-specific carotid arteries to identify patterns that could indicate stroke using ANSYS Fluent
- Discovered trends in the velocity data of stroke patients that suggest a notable difference between stroke and non-stroke patients
- Improved procedure for analysis by discovering shortcuts in the program that reduced the amount of manual processing time by up to 80% while maintaining the same accuracy
- Functioned as a supervisor and mentor to other members of the group, helping to correct mistakes and answer questions on how to further analyze each patient

#### *Teaching Assistant, Lab in CHE Principles*

Aug 2020 – Dec 2020

- Managed five groups of three students each in their Lab projects, advising them and helping to keep track of their progress
- Attended biweekly meetings to critique each groups' pre-lab reports and extrapolate their potential difficulties they would have in lab
- Assisted students outside of assigned hours by answering questions or listening to presentation rehearsals through Zoom

## OTHER SKILLS

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- Proficiency in ANSYS Fluent
- Familiarity with Mathematica, LabVIEW, AutoCAD, Space Claim, Design Modeler, and NX
- Proficiency in Cantonese and Mandarin