

# Alastair Lee

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Portfolio: <https://honsumal.github.io/portfolio/>

## SUMMARY

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Full Stack Web Developer with a background in Chemical Engineering. Recently obtained a certificate in Full Stack Development from the University of Toronto. Primary language is English, with fluency in Cantonese and a background in Mandarin.

## TECHNICAL SKILLS

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JavaScript ES6+, CSS3, HTML5, jQuery, Bootstrap, Materialize, Handlebars, React, Python 3, Node, Express, SQL, NoSQL, MongoDB, Apollo GraphQL, Test-driven Development

## EDUCATION

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

*Certification of Completion of Coding Bootcamp*

Aug 2022 – Nov 2022

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

*Master of Science in Chemical Engineering*

2020 – 2021

*Bachelor of Science in Chemical Engineering*

2016 – 2020

## PROJECTS

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*Swift Bank*

Nov – Dec 2022

GitHub Repository: <https://github.com/pav1593/swift-bank>

Deployed Site: <http://swiftbank.herokuapp.com/>

Tools: Material UI, MongoDB, ExpressJS, REACT, NodeJS, Apollo GraphQL, JWT Web Token

- Created a one-page banking site that allows users to view their accounts and make transactions.
- Linked the front-end and back-end of the site and performed a majority of the testing of the site's features.
- Performed as project manager, set up the project's Kanban board, kept group members' on track with tasks, and limited the scope of the project when needed.

*The Lending Station*

Oct – 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.
- Constructed the whole backend of the site, including creating models, seeding, and the create, put, and delete requests for the site.
- Acted as 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.

- Coded 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*

Jun 2019 – May 2021

- Analyzed fluid flow in 30 patient-specific carotid arteries to identify patterns that could indicate stroke using ANSYS Fluent computer program.
- Used velocity data of stroke patients to find differences between stroke and non-stroke patients.
- Streamlined procedure for analysis by discovering shortcuts in the program that reduced the amount of manual processing time by up to 80% while maintaining accuracy.
- Functioned as a supervisor and mentor to other members of the group, helped 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, advised them and helped keep track of their progress.
- Consulted biweekly meetings to critique each groups' pre-lab reports and extrapolate potential difficulties they would have in lab.
- Mentored students outside of assigned hours. Answered questions and critiqued presentation materials through Zoom.

## OTHER SKILLS

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- Familiarity with Mathematica, AutoCAD, Space Claim, Design Modeler, and NX