# Alice (Aili) Zou

*254 East 18th, Hamilton, Ontario, L9A4P6, Canada*

(+1) 289-639-7558  |  alicezou05@gmail.com  |  ailizou

## Summary

Experienced software developer with master's degree in computer science. 4+ years of full-time front-end web development experience, specializing in Angular 8-14, Angular Material, SCSS, CSS Grid, Flex Box, Angular Flex Layout, BEM naming and Bootstrap 3 and 4.Focused on better problem-solving method for various tasks, learning new technologies and tools as required.

## Education

**McMaster University** Master in Computer Science (GPA: 3.8)                    *2015 - 2017 Hamilton, Canada*

**McMaster University** Visiting student in the Department of Computing and Software    *2014 - 2015 Hamilton, Canada*

## Work Experience

**RBC Ventures - MoveSnap**                                                              *Remote*

Front-End JavaScript Engineer                                                          *2021-Current*

Worked on the Venture: MoveSnap - a Moving Concierge Service that helps Real Estate Agents & Brokers & Home Builders to enhance the relationships with their clients. Developed the seamless smooth user interface for the whole application suites and the new version one.

- Led discussions with designers and product owners to refine designs and implementations to everyone's satisfaction
- Designed, architected and took ownership of the features and code developed with progressively bigger scopes
- Developed new features for MoveSnap application suites according to best practices, receiving positive code reviews
- Architected the new MoveSnap App portal theme, ensuring consistent styling across the whole application, including multiple client portals
- Upgraded Angular 11 to Angular 13
- Improved/Refactored existing code to align with current team standards and practices
- Learned and applied RxJS, BEM naming convention, and SASS along the way
- Participated actively in the SCRUM Agile process to identify issues and to share the good aspects of the process/team
- Onboarded new employee, focusing on technical support
- Contributed to Confluence for onboarding, to update the process to be more up-to-date, created new technical documentation on common techniques used across the team, and reviewed other pages that needed input with feedback
- Collaborated with developers, product owners and designers
- Upskill Angular with advanced topics and new features in Angular 17 from the course: Angular Core Deep Dive(Angular 17)
- Upskill Angular with Ngrx and Testings from Udemy course, upskill CSS from advanced CSS Grid course, and also upskill TypeScript via a course

**DF/Net Research (Formerly called DF/Net Software ULC)**                                  *Dundas, Canada*

Software Developer                                                                     *2018 - 2020*

Worked on an existing web application: DFweb - a browser-based data collection and data review solution for clinical trials. https://www.dfnetresearch.com/software/dfweb/

- Improved existing features, fixed bugs, developed numerous new features and adopted responsive design principles for different screen sizes
- Designed DFweb software architecture, introducing backward compatibility for all server versions; Utilized service-component best practice pattern in Angular
- Mainly used AngularJS, Angular8, JavaScript, TypeScript, HTML5, CSS3, Bootstrap3 and 4, Webpack, and NodeJS for the frontend web development
- Continuously refactored code in terms of best practices and new available technology; Upgraded AngularJS to Angular 8, and simultaneously upgraded the libraries from Bootstrap 3 to Bootstrap 4 and Angular UI to Angular Bootstrap
- Contributed to the documentation of DFweb User Guide

**McMaster University**                                                                  *Hamilton, Canada*

Research Assistant (Angular Web Developer)                                              *2017 - 5 months*

- Designed a web-based visualization platform for Canarie Intrusion Detection System, which used a PAC (Presentation-Abstraction-Control) software design architecture. I used Angular 2, HTML5, CSS3 and Material Design Lite as the frontend. The backend was Node.js, and the database search solution used Elastic stack (File beat, Logstash, Elasticsearch, Kibana, TLS connection, RabbitMQ). Log source files came from the Bro (now called Zeek) Intrusion Detection System.

# Professional Skills

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|---|---|
| **Programming** | Angular, Javascript, Typescript |
| **Certificate** | Angular Core Deep Dive - Beginner to Advanced (Angular 17) Issued Dec 2023 |
| **Digital Design** | Inkscape, Figma |
| **Presenting/Teaching** | Education 750: Principles and Practices of University Teaching. (2015 Certificate from McMaster University) |

# Publications

Zou, A., & Down, D. (2018). Asymptotically maximal throughput in tandem systems with flexible and dedicated servers. *Asia-Pacific Journal of Operational Research*, *35*(05), 1850038-1-1850038–15. https://doi.org/10.1142/S0217595918500380

# Talks

**DFUG 2018 Conference, DF/Net Research Inc** — *Seattle-Renton, USA*

HANDS-ON WITH DFDISCOVER 2018, DFWEB, AND DFCOLLECT — *Sep. 2018*

**CanQueue 2016 Conference, McMaster University** — *Hamilton, Canada*

ASYMPTOTICALLY MAXIMAL THROUGHPUT IN TANDEM SYSTEMS WITH FLEXIBLE AND DEDICATED SERVERS — *Aug. 2016*

# Honors & Awards

2016    **Keith Leppmann Teaching Assistance Excellence Award**, McMaster University — *Hamilton, Canada*

# Service and Outreach

**Engineering Graduate Society (EGS), McMaster University** — *Hamilton, Canada*

STUDENT LIFE AND INTERNATIONAL OFFICER, AS A REPRESENTATIVE OF COMPUTING AND SOFTWARE DEPARTMENT — *2016*

**Life In Computing & Software (LICS), McMaster University** — *Hamilton, Canada*

CO-FOUNDER AND VICE-PRESIDENT INTERNAL/EXTERNAL — *2016*
- Club for improving the studies and lives of graduate students in the Computing and Software department

# Volunteering

2021    **Volunteer**, Social Group; Brainstorming ideas for social events — *RBC Ventures, Canada*

2016    **Volunteer**, Fall Preview Open House (Department Showcase); informing prospective students and parents about programs and student life in the Computing and Software department. — *McMaster Univ., Canada*