

Alice (Aili) Zou

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Summary

Experienced software developer with master's degree in computer science. 2+ years of full-time front-end web development experience, specializing in AngularJS, Angular 8, HTML5, CSS3, and Bootstrap 3 and 4. Super nerd, interested in devising a better problem-solving method for various tasks, and learning new technologies and tools if the need arises.

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

DF/Net Research (Formerly called DF/Net Software ULC)

Dundas, Canada

SOFTWARE DEVELOPER

Jan. 2018 - Feb. 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 (WEB DEVELOPER)

July. 2017 - Nov. 2017

- 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

Programming AngularJS, Angular, Javascript, Typescript, Node.js

Digital Design Inkscape

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

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*