

Alice (Aili) Zou

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Summary

Experienced software developer with master's degree in computer science. 2+ years experience of full time front-end web development, specializing in AngularJS, Angular 8, HTML5, CSS, Bootstrap. Super nerd who loves Linux and OS X and enjoys customize all of the development environment. Interested in devising a better problem-solving method for challenging 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*

Highlighted Qualifications

- Solution-focused, take initiative to work effectively within established guidelines
- Strong organizational, time-management and analytical skills
- Solid computer science knowledge and programming skills
- Excellent written / verbal communication and professional maturity
- Excellent team player - proven ability to work both independently and collaboratively within a team environment

Work Experience

DF/Net Software

Dundas, Canada

SOFTWARE DEVELOPER

Jan. 2018 - Present

- Core member in the software development team that is responsible for creating a Clinical Trials Data Management System.
- Led the development of DFweb, the web application in DFdiscover suite..
- Developed numerous features - 8 input types, QRM metadata, study, plate, field level helps, document management, role permissions model, edit checks.
- Designed DFweb architecture - Backward compatibility for all server versions, utilizing service-component best practice architecture in Angular.
- Mainly used AngularJS, Angular8, JavaScript, TypeScript, HTML5, CSS, Bootstrap3, Webpack, NodeJS for the frontend web development. For edit checks, used Web Assembly to allow JavaScript interacting with C++ code.
- My focus is on the web development side of building the next generation of our product.
- Maintained and documenting legacy code which mainly uses AngularJS and Bootstrap3.
- Wrote the user guide documentation for DFweb.

McMaster University

Hamilton, Canada

RESEARCH ASSISTANT

July. 2017 - Nov. 2017

- Designed a web-based visualization platform for Canarie Intrusion Detection System, which uses a PAC (Presentation-Abstraction-Control) software design architecture.
- Used Node.js as the backend, Angular, HTML5, CSS3 and Material Design Lite as the frontend, and Elastic Stack (File beat, Logstash, Elasticsearch, Kibana, TLS connection, RabbitMQ) as the database search solution. Log source files come from the Bro Intrusion Detection System.

Professional Skills

Programming Angular, Javascript, Typescript, Node.js, Elastic Stack, MySQL, Java, Python, C/C++,

Digital Design Corel Painter Essentials 6, Gimp

Presenting/Teaching Education 750: Principles and Practices of University Teaching. (Certificate in 2015 from McMaster)

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. doi:10.1142/S0217595918500380

Talks

DFUG 2018 Conference, DF/Net Research Inc

HANDS-ON WITH DFDISCOVER 2018, DFWEB, AND DFCOLLECT

Seattle-Renton, the USA

Sep. 2018

CanQueue 2016 Conference, McMaster University

ASYMPTOTICALLY MAXIMAL THROUGHPUT IN TANDEM SYSTEMS WITH FLEXIBLE AND DEDICATED SERVERS

Hamilton, Canada

Aug. 2016

Honors & Awards

2016 **Keith Leppmann Teaching Assistance Excellence Award**, McMaster University

Hamilton, Canada

Service and Outreach

Engineering Graduate Society (EGS), McMaster University

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

Hamilton, Canada

2016

Life In Computing & Software (LICS), McMaster University

CO-FOUNDER AND INTERNAL/EXTERNAL VICE-PRESIDENT

Hamilton, Canada

2016

- club for improving the study and life of graduate students in Computing and Software department

Volunteering

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

*McMaster Univ.,
Canada*