

# Jerry Zhao

3A Computer Science

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## Skills

### LANGUAGES

Java

JavaScript

C++

C

Swift

R

Python

Bash

Racket/Scheme

### WEB TECHNOLOGIES

Java EE

ReactJS

AngularJS

Vue.js

MySQL

Sass

JSP/Servlet/JDBC

AJAX

AWS

### TOOLS

Eclipse

Git

HeidiSQL

Jira

Wireshark

Maven

## Education

University of Waterloo

Computer Science

April 2020

## Experience

### 360 Education Labs

Full Stack Developer

Toronto, Canada

May 2017 - Aug 2017

*Java EE (JSP/Servlet/JDBC), ReactJS, AngularJS, MySQL, CSS3, AWS, jQuery, HTML5, PHP, Flux (Alt.js)*

- Reduced loading time for large datasets by 90% with the use of dynamic function loading
- Implemented front and back ends for a service that allows users to attach their media files from the main platform into Moodle, Learn, or Brightspace
- Prototyped and developed an interactive video quizzing platform with React and HTML5 that is used by thousands of students and instructors
- Designed, implemented, and maintained a video capture interface with an extensive access control system
- Developed a single sign-on system for SAML and OAuth 2.0 which is used to restrict media access to authenticated users
- Created a capture scheduler which parses XML input and automatically starts recording on remote devices
- Assisted in optimizing a media player controller with AngularJS and MySQL
- Integrated new application features into external learning management systems like Brightspace and Canvas
- Built fully tested React components while strictly following WCAG 2.0

### Siemens Canada

Software Developer

Toronto, Canada

May 2016 - Aug 2016

*NodeJS, AngularJS, RequireJS, jQuery, CSS, Bootstrap*

- Implemented features to the DLUX web application using AngularJS and NodeJS
- Developed Bash scripts for Maven to automate project build and deployment
- Used Wireshark to analyze network behavior under different configurations
- Completed a research project on software-defined networking, which includes a report and a software demo

## Projects

### Navigation App

*An Android app that tracks user movement and displays their location on screen*

- Implemented a depth-first search to calculate shortest paths
- Designed a noise-reduction algorithm to allow for accurate movement recognition

### Pet Simulator

*A 2D simulation game developed using Java's AWT and Swing*

- Designed an authentication system with SHA-512 password hashing
- Strictly follows the object-oriented design principles to allow for scalability

### 2048

*A web implementation of the game 2048 using ReactJS*

- Implemented move validation algorithms
- Created unit tests for React components

## Awards

**Top 2% · Canadian Computing Competition (Senior)**

Feb 2015

Across 3600 contestants

**Term Dean's Honour List**

Jan 2017

Awarded to students with an average of 87% or higher