

# JOLENE ZHENG

✉ jolenezheng18@gmail.com

🔗 jolenezheng.github.io

in jolenezheng

🐙 jolenezheng

## 📁 EXPERIENCE

### Software and Web Developer | Rich Media

May 2019 – Aug 2019

Toronto, ON

- Developed interactive tools, **cross-browser compatible dynamic websites** and videos from scratch for clients such as Samsung, Scotiabank, TD, CIBC and Fidelity in JavaScript, using an **agile** approach
- **Reduced code by 500+ lines** in **75%** of projects by implementing a graphing and accordion library from scratch in TypeScript; **used company-wide**
- Proposed and implemented an internal **automated emailing system** from scratch to respond to potential clients, **saving \$25,000** a year in labour costs
- Developed a fully accessible dynamic video with **Google Analytics** to display at a trade show, helping land **310% more clients** than the average month

### Software Engineering Team | Waterloo

Sept 2019 – PRESENT

Waterloo, ON

- Developing the communication pipeline from the controller to the pod through protocols such as TCP, CANBUS, and SPI
- Refining backend infrastructure enabling **autonomous driving** of the pod

### Web Developer | Six Social

Aug 2019 – PRESENT

Toronto, ON

- Developed and continually maintaining the company's website; viewed by **80+** clients daily and increased sales by **\$800+** per event
- Designs and maintains front-end, client-side and server-side architecture

### Programming Instructor | Triway Education

Apr 2017 – Aug 2018

Markham, ON

- Tutored Computer Science, Math and English for **25+** students in grades 4-8
- Created well-documented sample programs, and exemplified **standard debugging and testing**

## 💡 PROJECTS

### Chess Game with a Chess Bot

Java, SQL | Apr 2018

- Desktop game allowing users to play against a chess bot that uses **alpha-beta pruning** to determine the best move; average **win ratio of 12:1**

### Fact Checker

JavaScript, HTML, CSS, Node.js, Microsoft Azure, Algorand | PRESENT

- Web application aimed to **combat fake news**; extracts a video's subtitles to identify its key topics, and fetches relevant articles to fact check against

### Doodle Jump Variation: Cactus Climber

Java | April 2018

- Desktop game where users fight off the effects of a **custom gravity-model** by jumping on platforms while dodging moving items using the keyboard
- **Won Best Game** in a Grade 12 Game Development Contest

### Budgeting Tool: Aquarium

C++ | March 2019

- Web application that simulates the growth of a **customizable aquarium** according to daily spendings and inputted financial goals

## ⚙️ SKILLS

- C/C++, Java, JavaScript, TypeScript, Scheme, HTML, CSS
- Bash, Node.js, MondoDB, Express, Jest, Git, jQuery, JSON, Heroku

## 🎓 EDUCATION

### Candidate for Bachelor of Honors Computer Science

University of Waterloo | 2018 - 2023

- Cumulative GPA of **3.7 / 4.0** – **Excellent** Academic Standing
- President's Scholarship

### Completed the Complete Node.js Developer Course

Udemy | 2019

## 🏆 ACHIEVEMENTS

- **7<sup>th</sup>**, ECOO Programming Contest (40+ Teams) | 2017
- **Honour Roll**, Canadian Computing Contest (Junior) | 2017
- **Top 25%**, Waterloo Math Contests | 2014 – 2018
- **Best Game**, Grade 12 Game Development Competition (65+ Students) | 2018
- **3<sup>rd</sup> in Canada** with Waterloo's Varsity Ultimate Frisbee Team, Canadian University Ultimate Championships | 2018
- **1<sup>st</sup> in Canada**, Canadian Dragon Boat Championships | 2014 – 2017
- **Top 10 in Ontario**, DECA Marketing Competition (200+ Teams) | 2017

## 🎮 INTERESTS

- Ultimate Frisbee; played on Toronto's team, and currently playing on Waterloo's Varsity team
- Basketball; 8+ years
- Game Development; 3+ years
- UI/UX Design; 3+ years
- Machine Learning