

# JOLENE ZHENG

✉ jolenezheng18@gmail.com

☎ 647-970-3619

in jolenezheng

🔗 jolenezheng

🔗 jolenezheng.github.io

## EXPERIENCE

### Software Engineer Intern | [HubHead](#)

📅 Sept 2020 – PRESENT

📍 Markham, ON

- Transformed the analysis of over **\$2 million** dollars worth of industrial equipment, by spearheading the development of a text analytic program to categorize unstructured data, improving productivity by over **500%** as shown by KPIs
- Building **RESTful APIs** to accelerate client requests in **Java with Spring Boot**

### Software Engineer Intern | [Xero](#)

📅 Jan 2020 – Apr 2020

📍 Toronto, ON

- **Scaled infrastructure to support 33% more users** upon Xero acquisition, by transforming **1000+** web scrapers to a headless browsing solution and implementing PostgreSQL migrations and optimizations
- Developed and managed **1000+ Node microservices** to automate financial data aggregation for **100,000+** users, which improved microservice success rates from **25% to 95%+** and achieved a **2-year high**
- **Led the development of bash scripts** to automate the retrieval process of encrypted credentials, which improved retrieval speeds by **150%**

### Web Developer Intern | [Rich Media](#)

📅 May 2019 – Aug 2019

📍 Toronto, ON

- Created interactive tools and **cross-browser compatible dynamic websites** from scratch
  - 🌐 See live projects: [Scotiabank Tool](#), [Sun Life Calculator](#), [TD Insurance Tool](#)
- **Proposed** and helped develop an internal **automated emailing system** that **performs sentiment analysis** on incoming emails, helping **save \$25,000 a year** in labour costs
- Individually implemented a **company-wide** graphing library from scratch in **TypeScript**

### Technical Product Manager, Contract | [Six Social](#)

📅 Sept 2019 – Jun 2020

📍 Toronto, ON

- Managed the development of **5 product features** and successfully facilitated communication with stakeholders throughout to deliver **100% timely deployments** within budget
- Led the development of a project management tool; **Improved team velocity by 150%**

## PROJECTS

### 🔗 Chess Game with a Chess Bot - 2nd in Bot Tournament [Java, SQL, UML Diagram](#)

- Individually created a **desktop game** allowing users to play against another player or a **chess bot that uses alpha-beta pruning** to determine the best move; **win ratio of 16:1**
- Used several **design patterns** such as **Observer, Factory, and MVC**, abstract data structures, and object oriented principles

### 🔗 Financial Forest - 1st @ SheHacks, Google Prize

[JavaScript, React.js, Node.js, Express.js, MongoDB, Google Cloud Vision API](#)

- Webapp that **scrapes information off pictures of receipts** users upload, and tracks their purchases to **suggest customized budgeting tips**

## EDUCATION

### Bachelors of Honours Computer Science

[University of Waterloo](#)

📅 Sept 2018 – Dec 2022

- **Cumulative GPA of 3.8 / 4.0**
- President's Entrance Scholarship
- **Relevant coursework:** Algorithms, Data Structures & Data Management, Sequential + Functional Programming, Object Oriented Software Development

### Algorithms Specialization

[Stanford | Coursera](#)

📅 2019 – 2020

## SKILLS

- **Languages:** Java, JavaScript, TypeScript, C++, C, SQL, HTML/CSS, Bash
- **Technologies:** React.js, Node.js, Express.js, Backbone.js, Spring, Groovy, PostgreSQL, MongoDB, REST API, Google Cloud Platform

## ACHIEVEMENTS

- **1st, SheHacks** - Google's 1st Choice (90+ teams)
- **Honourable Mention, BostonHacks** (40+ teams)
- **Computer Science Award** (400+ students)
- **Best Game, RHHS Game Development Competition** (65+ Students)
- **7th, ECOO Programming Contest**
- **2nd / 32, Chess Bot Tournament**
- **1st in Canada, Canada Dragon Boat**
- **3rd in Canada, Canadian University Ultimate Championships**
- **1st, 8 OFSAA Track & Field Events**

## INTERESTS

Varsity Ultimate Frisbee Team

Cloud Technologies

PM

Music Production

Astronomy