

# Hengchao(William) Xiang

Toronto, ON | [william.xiang1375@gmail.com](mailto:william.xiang1375@gmail.com) | <http://williamxiang.me>

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## SUMMARY OF QUALIFICATIONS

- Motivated **Software / Web / Mobile Developer** with strong analytical and programming experience
- Hands-on experience with Model-View-Control (**MVC**) architecture
- In-depth understanding of **Data Structure, Algorithms, Object-Oriented** and **Software Design** principles
- Experienced in Mobile App development using **Android SDK** and **Java**
- Solid knowledge in **SDLC** and **Agile** projects; strong project management skills; Familiar with Git source control
- Great knowledge in **QA**: automated testing, unit testing, and regression testing
- Excellent knowledge in **Relational Database, SQL queries, ERD**
- Excellent communication skills and great team player

## SKILLS

- Programming: Java, Python, C, JavaScript, HTML, CSS, Shell, PHP, SQL, Android SDK, NumPy
- Framework & Tools: Angular, Nodejs, Bootstrap, Git, TensorFlow, Eclipse, Android Studio
- Platforms: Windows, Linux (Ubuntu, CentOS), Mac OS

## EDUCATION

- |   |                     |
|---|---------------------|
| <b>York University</b>  | Jan 2017 – Present  |
| <ul style="list-style-type: none"><li>▪ Bachelor of Science (Honored, 3rd year), Computer Science</li><li>▪ GPA: 8.84/9.0</li></ul> |                     |
| <b>Harbin Institute of Technology</b>   | Sep 2008 – Jul 2010 |
| <ul style="list-style-type: none"><li>▪ Master of Engineering, Mechanical Engineering</li></ul>                                     |                     |
| <b>Southwest Jiaotong University</b>  | Sep 2004 – Jul 2008 |
| <ul style="list-style-type: none"><li>▪ Bachelor of Engineering, Mechanical Engineering</li></ul>                                   |                     |

## PROJECTS

### **Gym Website (May 2018) – website for ACE Warehouse Gym([www.acewarehousegym.ca](http://www.acewarehousegym.ca))**

- Created a new website for the gym using PHP, HTML, JavaScript, jQuery, CSS
- Developed code for Slider Carousals, CSS animations, and JS animations
- Developed code for a week view calendar with agenda using JavaScript
- Leveraged JSON to feed the customized calendar with Event objects
- Delivered a responsive website that works across devices via viewport and CSS media queries
- Deployed the website to Amazon EC2, configured domain and mail service on the server

### **YorkU GPA Calculator(April 2018) – Android app for YorkU students**

- Built an app to calculate GPA for YorkU students in Android Studio based on MVC design pattern
- Coded using Java and jsoup library to extract data from web and calculate GPA automatically
- Managed cookies of the app to balance between convenience and security
- Deployed the Android application on Google Play Store
- Maintained the code using version control system Git

### **Wholesale Company Website(February 2018) – website for a wholesale company**

- Developed the Frontend of a web app for a wholesale company using Angular and Bootstrap
- Developed responsive web pages for smart devices using Bootstrap and media queries
- Worked on creating log-in authentication modules using AngularJS and JavaScript
- Created Angular service and integration with RESTful APIs
- Used Angular \$http to send GET/POST request to fetch data from server
- Used open source library like Angular material to create customized components
- Maintained the code using version control system Git

### **Room Counter Game (July 2017) – Android app**

- Designed an Android Mobile app to allow users to simulate activities and count rooms in the map
- Created a view with four buttons of moving direction and a counter
- Developed a model with steps and directions of east, south, west, and north
- Implemented the controller to simulate directional moving activity and to identify objects
- Designed logics when user reaches a wall or enters a room

### **WORK EXPERIENCE**

#### **Research Student, York University**

May 2018 – Aug 2018

- Tested state-of-the-art deep neural networks for single-view 3D estimation via MATLAB, TensorFlow, and Caffe under the supervision of Prof. James Elder
- Evaluated the performance of different networks using various error metrics
- Learned the knowledge about Machine Learning and Deep Learning

#### **Teaching Assistant, York University**

Sep 2017 – Present

- Supervised lab work, helped the students who had questions, and marked the work of students in the lab
- Evaluated and graded examinations, assignments, and lab tests
- Scheduled and maintained regular office hours to meet with students

#### **Senior Process Engineer, Justtide Technology**

Oct 2012 – Aug 2015

- Established the flow of product process development, and identified DFM and DFR problems
- Inspected the PCB layout, wiring and stack structure
- Designed the process of new products, and evaluated the maturity and costs
- Identified process issues with manufacturing related to PCB and PCBA

#### **Process Engineer, Huawei Technologies**

Aug 2010 – Oct 2012

- Designed manufacture process of the product, including SMT, DIP, Assemble, etc.
- Inspected the PCB layout, wiring and stack structure using software
- Tracked manufacture process of the product and improve the FPY of product
- Analyzed the defect products, search for the root causes, and conduct reliability tests

### **ACTIVITIES & VOLUNTEER**

#### **Bootcamp Ambassador, Lassonde Squad**

May 2017 – Present

- Provided assistance to events and activities, and helped new students use the enrollment system
- Participated in Academic orientation and First Year Academic Advising

#### **Tutor, Excel Lassonde**

Oct 2017 – Present

- Tutored computer science and mathematics courses to students who needed supplementary help

### **AWARDS & SCHOLARSHIPS**

- James Mason Academic Achievement Medal Jun 2017
- Lassonde Undergraduate Research Award Aug 2018