Hengchao (William) Xiang

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SUMMARY OF QUALIFICATIONS

- Motivated **Software / Web / Mobile Developer** with strong analytical and programming experience
- In-depth understanding of **Data Structure**, **Algorithms**, **Object-Oriented** and **Software Design** principles
- Experienced in Mobile App development using **Android SDK** and **Java**
- Strong project management skills; Familiar with **Git source control**
- Great knowledge in **unit testing**, and **regression testing**
- Excellent communication skills and great team player

EDUCATION

Bachelor of Science (Honored, 3rd year), Computer Science   Expected May 2019
- Lassonde School of Engineering, York University
- GPA: 8.84/9.0

Master of Engineering, Mechanical Engineering   Jul 2010
- Harbin Institute of Technology

PROJECTS

Gym Website (May 2018) – website for ACE Warehouse Gym(www.acewarehousegym.ca)
- Created a new website for the gym using PHP, HTML, JavaScript, jQuery, CSS
- Produced CSS animations, and JS animations which created a visually appealing user experience
- 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
- 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

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

Teaching Assistant, York University   Sep 2017 – Present
- Supervised lab work, helped the students who had questions, and marked the work in the lab
- Evaluated and graded examinations, assignments, and lab tests
- Scheduled and maintained regular office hours to meet with students

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

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

EXTRACURRICULAR ACTIVITIES

Tutor, Excel Lassonde   Oct 2017 – Present
- Tutored computer science and mathematics courses to students who needed supplementary help

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

AWARDS & SCHOLARSHIPS

- James Mason Academic Achievement Medal   Jun 2017
- Lassonde Undergraduate Research Award   Aug 2018
- York University Continuing Student Scholarship   Sep 2018

TECHNICAL 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)