

Olivia Kim

2B Mechatronics Engineering
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SUMMARY OF QUALIFICATIONS

- Proficient in Python and Java programming languages; familiar with C++, C and C#
- Highly experienced with various web development technologies including HTML, CSS, Bootstrap, JavaScript, JQuery, and Django
- Working knowledge of Machine learning and natural language processing technologies, such as NLTK, scikit learn and SciPy
- Strong understanding of Git version control system; familiar with Subversion
- Comfortable with PostgreSQL, Redis, Celery and development in a Linux system environment

PERSONAL PROJECTS

Pixel Perfect Piece of Pizza Bot (PPPPB)

Pixel Perfect Piece of Pizza provides a quick and easy way to order pizza. One can engage in a conversation with the PPPPB, and will be asked a series of questions regarding their order, rather than filling out long on-line forms or ordering pizza via phone. The PPPPB implements various technologies such as Angular JS, MongoDB, Node.js etc.

The Catasort

The Catasort is a robotic candy sorting machine that catapults different colored candy into their respective bins based on color. This project was created using various Lego Mindstorms sensors and was written in Robot C. This project was created organically, beginning with a self-created mechanical design. This design then came to life in Waterloo's machine shop and was integrated with the software.

In The Loop

In The Loop is a mobile app for Android that combines all categories of news into one simple interface. A short 20-60 second video on each topic at the touch of a button allows for commuters, students and busy individuals to stay "In The Loop" at all times.

Snowball

Snowball is a 2D desktop game scripted in C# using the Unity development environment. Snowballs are to be thrown at moving enemies that move randomly across the gameplay field. This project is still in progress and will be integrated with the Myo.

Bus Times Chrome Extension

A simple chrome extension written in Python and integrated with Django and PostgreSQL. This simple app pulls the latest bus times from the GRT public data feed and calculates the arrival times of the next 3 busses.

EMPLOYMENT

Full Stack Developer/Software Engineer

Lockheed Martin Canada (LMC), Halifax, NS, Sept. – Dec. 2014

- Performed data and regression analysis to form a learned ranking model
- Improved named entity recognition and part of speech tagging techniques
- Created dynamic analytics dashboard to display user statistics in graphical, tabular and visually appealing forms
- Implemented dynamic, team-based interfaces to view document lists with real time changes

Software Developer

Lockheed Martin Canada (LMC), Halifax, NS, Sept. – Dec. 2014

- Implemented 3d logic to animate software representations of mechanical parts
- Designed and integrated classes and factories to simplify and eliminate duplicate code
- Designed and implemented graphical user interface (GUI) components of the simulation to further enhance the user experience
- Studied and examined the functionality of the mechanism being simulated in order to fully understand and accurately implement its software representation
- Fixed and created unit tests using the Mockito mock library

IT Service Analyst

Ontario Securities Commission (OSC), Toronto, ON, Jan. – Apr. 2014

- Provided daily technical and administrative support to the staff of the OSC
- Solved hardware & software issues related to computing, printing, telephony and mobile devices
- Configured computers, monitors, printers and telephones and educated OSC staff on their use

AWARDS AND ACHIEVEMENTS

- **First Place Hack at Kik Hackathon** – Awarded to the “Pixel Perfect Pizza Bot” at the Kik Hackathon hosted at the University of Waterloo (Feb. 2015)
- **Geographers Without Borders Sponsor Award** – Awarded to “In the Loop” mobile application at Delta Hacks hosted at Macmaster University (Feb. 2015)

EDUCATION

- **Candidate for Bachelor of Mechatronics Engineering**, Co-operative Education Program, University of Waterloo (Sept. 2013 – Present)
- **Recipient of President's Scholarship of Distinction** - awarded to students with average above 90% upon entrance to Waterloo (Sept. 2013)