

# Carlos Lee

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## EDUCATION

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**University of Toronto** Canada  
*Bachelor in Computer Science Specialist* Expected April 2017  
Cumulative GPA 3.65/4.0  
Related course: Machine Learning, Algorithm Design & Analysis, Database, Software Engineering

## PROFESSIONAL EXPERIENCE

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**Winmagic** Canada  
*Automation Specialist (Java)* August 2015 – August 2016

- Worked closely with QA and automation framework developers to develop automation test cases to test *WinMagic SecureDoc* application deployment.
- Developed an automated system to create and deploy disk images remotely using *FOG* on EFI and BIOS devices with intel vPro chip.
- Implemented the automation framework to create AWS instance for *SecureDoc* deployment, also contributed other cloud platform framework such as vSphere, AWS, Azure, Hyper-V, Xen.
- Reduced daily manual testing by 10% and automated 2% of the monthly regression testing.

**Capstone project with Defense Research and Development Canada (DRDC)** Canada  
*Software Developer* September 2016 – March 2017

- Developed a low-cost, reliable and portable system to record marksmanship in real time with a team of 4 people.
- Contribute the software part of the project to develop a React.js web application for the soldiers and researchers to view shoot record.
- Provide DRDC researchers, the data to analyze marksman performance.

## TECHNICAL SKILL

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### Programming Languages

Python, Java, C, JavaScript, Matlab

### Tools

Eclipse, Spyder, Sublime, Git / SVN

## ACADEMIC PROJECT

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### Sentiment analysis with tweets (Python)

- Developed a program that extract features from raw tweets to classify its topics and sentiments.
- Utilized WEKA to classify and analysis data into positive and negative sentiment.
- Reported classification accuracy on test data among, SVM, naïve Bayes and decision tress.
- Concluded that SVM perform better that its counterpart if large amount of data is given.

### **Object Recognition in 2D Medical Images** (Matlab)

- Developed a visual based automated system to characterize histopathology images of cancerous cells.
- Utilized convolutional neural network and color segmentation to detect patches with a nucleus at the center and to classify the detected nuclei patches in the different classes.
- Performed 0.65 weighted average F1 score on nucleus classification and 0.7 of nucleus detection.

### **Simple router with NAT** (C)

- Developed a simple router with NAT that handles packets routing in a team of 2.
- Implemented the functions that unwraps the incoming network packets, translates the packet to the desired destination and sends the packet to the correct port.
- Passed all tests that was assign to the project.

### **SynergySpace** (Javascript, nodeJs, SailsJs, MongoDB, AngularJs, ExpressJs)

- Developed an Airbnb like web application for co-working space rental with a team of 4.
- Contributed the implementation of the listing and payment page of the application.
- Resolved all features that are need for the application.
- Prepared a professional report that addressed all aspects of the project, such as database model, framework mode and user stories.

## **PROJECT**

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### **Frontend developer of a startup** (MeteorJs)

- Developed an outlook like web application for flyers.
- Implemented the client side of the application which included the UI and web page design.

### **UofT Hackathon** (IBM Watson)

- Developed a program that extract topics from UofT campus news then recommend similar news from other universities to the reader.

## **LEADERSHIP**

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### **UofT Web Club**

Canada

*Faculty Liaison*

2014

- Organized weekly web design tutorial.
- Created and organized events to promote web development in University of Toronto