

## Education

Expected 2015 **Honors Bachelors of Science**, University of Toronto, .  
Computer Science - Software Engineering Specialist

## Technical Skills

**Language** Python, Java, HTML, JavaScript, SQL,  $\text{\LaTeX}$ , C  
**Software** Git, Sublime, svn  
**OS** Windows, Debian, ArchLinux  
**Frameworks** PhoneGap  
**GitHub** [derek-lai-](#)

## Projects

- SwingR** A program create at the UofT Hack hackathon utilizing OpenCV and a Meu to track a user's golf swing. We analyze the swing and judge an individual's attempt. The sessions score can then be sent to a phone or via Bluetooth to a Pebble device.
- Lyra** Ongoing development of an app that utilizes sensors on a phone to help in the selection of music fit for its current environment
- AES-128** Reimplemented a version of the AES-128 ( Advance Encryption Standard 128) as specified in IETF 3565 using Python
- FyrApp** Assisted in the development of a twitter add-on leveraging Twitter and Google API to place tweets on the map based on the location of the tweet
- Matplotlib** Participated in an open source Python math plotting library, creating a new 3D plotting function
- Talon** Contributed to an algorithm using unicode to allow for the storage of Latitude and Longitude coordinates, up to 7 decimal points, to be stored in 4 unicode characters

## Experience

- May 2012 – **Sales Associate**, *XSCargo*.  
Aug 2012 - Maintained sales records for inventory control  
- Responsible for shipping merchandise and supplies in and out of inventory to internal locations and departments
- July 2011 – **Sales Associate**, *Home Hardware*.  
Jan 2012 - Recommended merchandise based on individual requirements  
- Prepared sales contracts and accepted payment through cash, cheque and credit card

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