Derek Lai

Education

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

Technical Skills

Language Python, Java, HTML, JavaScript, SQL, LaTeX, C

Software Git, Sublime, svn

OS Windows, Debian, ArchLinux

Frameworks PhoneGap

Projects

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, created 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

TAid App made to assist a teachers assistants weekly duties by centralizing information and allow for online and offline modifications to files

Experience

May 2012 – Aug 2012 | **Sales Associate**, *XSCargo*.
- Maintained sales records for inventory control
- Responsible for shipping merchandise and supplies in and out of inventory to internal locations and departments

July 2011 – Jan 2012 | **Sales Associate**, *Home Hardware*.
- Recommended merchandise based on individual requirements
- Prepared sales contracts and accepted payment through cash, cheque and credit card