**Chi-Young Jeffrey Lii**

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**Education**

**Penn State University**, State College, PA

B.S., received December 2015

Majors: Physics – Computational Minor: Mathematics

Honors: Presented a robotics demonstration for PSU President Barron’s tailgate for the PSU trustees and sponsors (http://news.psu.edu/story/382768/2015/11/30/academics/student-programmed-robot-steals-show-president%E2%80%99s-tailgate)

**Work Experience\***

**Developer on Google Play:** <https://play.google.com/store/apps/developer?id=Chi-Young+Jeffrey+Lii>

**Penn State University**, State College, PA

*Learning Assistant, IST 402: Human Robot Interactions* May to December 2015

* Wrote Python scripts to control the robot
* Developed and wrote the course labs and syllabus for IST 402
* Taught students skills to

**MIR Lab**, National Taiwan University, Taipei Taiwan

*Acoustic Machine Learning Research* Summer 2014

* Gathered, cleaned, and processed an acoustic data set
* Researched uses of machine learning algorithms (GMM, SVM, MLR)
* Wrote a classifer in Matlab (used matplotlib)

**Exoskeleton Robot Team**, Industrial Technology Research Institute, Hsinchu, Taiwan

*Programmer* Summer 2013

* Researched the Matsuoka Neural Oscillator
* Wrote a numerical program in C++ simulating several oscillators
* Plotted different weights/types of oscillator in Gnuplot

**IT Department**, Lu Chu Shin Yee, Luchu Taiwan

*Webpage Developer* Summer 2011

* Wrote web pages in Eclipse
* Wrote SQL scripts for an ERP

\*I am a US citizen

**Other Experience**

**Research**:

* *League of Legends research project:* Aggregated twitter text and metadata pertaining to the online video game League of Legends, and processed them using WEKA. Then our team analyzed the sentiment of the tweets before and after major announcements.
* *Select Physics Experiments, Penn State University:* Gathered, processed, and analyzed data for the Frank Hertz Experiment, Ultrasonic imaging, Nuclear Magnetic Resonance, and the speed of light. Completed extensive error analysis.

**Skills:** Experience in C++, Java, Python, Matlab, R, Acoustic processing, supervised learning, word processing, numerical methods, Mandarin Chinese (fluent)

**Websites**: www.github.com/lii, lii2eportfolio.wordpress.com