

Charlie Li

c.li@psu.edu
<http://vishwin.info>

Bachelor of Science, Computer Science

Expected May 2016

The Pennsylvania State University
University Park, PA

Computer Lab Consultant

August 2013–present

Information Technology Services @ Pennsylvania State University, University Park

- Face of the computer lab whenever users are entering, using and leaving
 - Maintain the machinery and atmosphere of computer labs across campus
 - Assist users in their use of computer software, ranging from printing Microsoft Word documents to explaining the nuances of Visual Studio
 - Repaired application and hardware problems that do not require root/sysadmin access
 - Analysed for patterns of user difficulties and documented them to the internal wiki and management
-

Engineering Orientation Network

August 2012–present

- Mentee Fall 2012, mentor Fall 2013, webmaster April 2013–present
 - Used systems programming techniques to create and maintain static HTML websites, caused by limited web server capabilities
 - Website compile script written in Python, uses Jinja2 templating engine, will eventually integrate Markdown
 - Writing card swipe check-in system in Python while remaining sensitive to restricted student ID data
 - Website source: <https://github.com/vishwin/PSU-EON-2014-website>
 - Implementation: <http://www.engr.psu.edu/eon/>
-

Penn State Cycling

August 2012–present

- Secretary August 2013–August 2014, webmaster starting August 2014
 - Created the first new website in three years with PHP, Twitter Bootstrap elements and pretty URL handling
 - Page content read from individual flat files because only SQLite is provided, such would be a single point of failure
 - Implementation: <http://clubs.psu.edu/up/bike/>
-

PennApps Spring 2014

- Created a web application to allow easy viewing and uploading of videos of people speaking various specific natural languages
 - Backend written in Python using the Flask microframework
 - YouTube API used to fetch and upload videos to already specified channel by playlist
 - MongoDB used to relate YouTube playlists semantically
 - Source code: <https://github.com/vishwin/flask-wikitongues>
-

PennApps Fall 2013

- Created a web application to help mainly college students either make money in exchange for manual labour or post tasks needing done with payment offer
 - Backend written in Python using the Flask microframework
 - Frontend written with Jinja2, Flask's HTML templating engine, and Twitter Bootstrap components
 - MySQL database holds user and task data, Venmo API processes payments
 - Source code: <https://github.com/austinheimark/SoCollege>
-

PHP practical course

- Created a collegiate off-campus housing board to match people with available housing, roommates, etc
- Frontend uses Zurb Foundation components and Gravatar for profile pic matching by email
- Source code: <https://github.com/vishwin/php-housingboard>