Charlie Li

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Education

Bachelor of Science, Computer Science
The Pennsylvania State University   Expected May 2016

Experience

College of Information Sciences and Technology, Pennsylvania State University *Learning Assistant*   August 2014–present

- Currently assisting, for the second time, IST 250: Introduction to web design and development, using HTML, CSS, JavaScript
- Assisted last semester IST 256: Programming for the web, using PHP and MySQL on the LAMP stack
- Both classes primarily online learning, deliverables and assignments, with in-person assistance during scheduled class times and office hours
- Held office hours for four hours, consisting of three sessions per week
- Graded all assignments for 27 students in IST 256, all 43 students in IST 250

Information Technology Services, Pennsylvania State University *Lab Consultant*   August 2013–present

- Assisted users in the campus computer labs with various software and hardware malfunction questions
- Provided guidance for audio and video editing with iMovie/Final Cut Pro and Garageband
- Maintained the labs' condition for cleanliness
- Helped answer other lab consultants' questions when needed

Capital One *Technology Development Intern*   June–August 2015

- Involved with two Agile teams: a network administration/maintenance team spread across all office locations, and a bank transaction website DevOps team based in Wilmington, DE
- Used Flask microframework and D3.js to automatically pull data from the network team's VersionOne kanban board for weekly upper management reports
- Embedded the above into a new group page for the network team on the company's Jive Software social intranet
- Corrected some small customer experience issues on the transaction site

IT Pros–Philadelphia *Data Analyst/Development Intern*   July–November 2014

- Used Flask microframework and Google Maps API to map a sample set of tech employers in Philadelphia area
- Set up and maintained development server containing Apache httpd, git and CouchDB

Hackathon projects

- **PennApps Spring 2015**: CritSim – A cycling sensor framework that transmits handlebar force (turn simulation) and wheel spin (instantaneous velocity and distance pedalled) data using a network daemon; demoed output with a D3.js simulation. Used two Arduinos plus sensors to gather data. Additional inputs, like Sensoria sock, can be added for more data; output can be Oculus/VR and even multiplayer
- **YHack 2014**: YoLunch.me – A Yo "service" that uses simple yes/no questions and Facebook integration to help users reconnect with their weaker social ties. Worked on the backend using the Yo API, Flask microframework, Facebook API and MongoDB
- **Unhackathon 2014**: Coffeestop – A webapp, written in Python using the Flask microframework, Python GPX library, Yelp API, Google Maps API and ordr.in API, to find coffee shops, cafés, convenience stores, etc based on inputted GPS track. Optionally, users can order their food/drink for serving just-in-time upon arrival
- **PennApps Spring 2014**: Wikitongues prototype – Used the Flask microframework, YouTube API and MongoDB to create a purpose-built language video previewer and uploader
- **PennApps Fall 2013**: MerpIt – Used the Flask microframework, Venmo API, MySQL and Twitter Bootstrap for a college student manual labour exchange board

School activities

- Secretary, then webmaster, **Penn State Cycling Club** Built and maintained a new club website from scratch, using custom PHP (initially 5.1, now 5.3) paired with Twitter Bootstrap and now Zurb Foundation
- Webmaster director, **Engineering Orientation Network** – Built two websites for each of the two years served. First year used Twitter Bootstrap on manually-written HTML. Second year used Zurb Foundation and Python scripts to compile website