Edward Lee

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**Education**

**University of California, Berkeley** *B.A. Computer Science, expected May 2014*

**Relevant Coursework:**

*Computer Security, Algorithms, Networking, Artificial Intelligence, User Interfaces, Databases, Software Engineering, Discrete Mathematics & Probability, Linear Algebra, Productive Unix Use, Tangible User Interfaces, Machine Structures, Data Structures, Entrepreneurship.*

**Professional Experience**

**TapFame** *(Software Engineer Intern)*

*San Francisco, CA*

*07/2013 – 09/2013*

* Django back-end development with CTO implementing core features, optimizing for speed (for database queries and scraping functions) as the magnitude of in-house data increased, and web crawling/scraping.
* Headed the integration of Android-related features where there was originally only support for the iOS platform.
* Improved overall user experience to be more seamless by replacing static content and page redirects to utilize AJAX.

**CompSci Eddy’s iPhone Repair** *(Founder)*

*Berkeley, CA*

*06/2012 – 06/2013*

* Started an iPhone repair business for a quick 40-minute drop-in session around the Berkeley campus.
* Managed all aspects of the business including the repairing, accounting, customer service, branding, and advertising.

*Berkeley, CA*

*06/2011 – 06/2013*

**Student Affairs IT: Residential Computing** *(Access Control Programmer)*

* Development in Perl of the wireless captive portal system across the Berkeley campus of more than 36,000 people.
* Coded with a team of programmers developing features as well as making major modifications to our technology stack.
* Led technical coding workshops, new employee training sessions, and code reviews. Frequent collaboration in-office and remotely using SVN, IRC, and a TWiki for documentation.

**Byte Clothing** *(Co-Founder & Web Developer)*

*Palo Alto, CA*

*12/2010 – 01/2013*

* Built website for a clothing brand selling dinosaur hoodies with manual PHP and PayPal as the payment gateway.
* Implemented a homebrew inventory system to streamline the delivery process, and other tools such as Google Analytics.

*Palo Alto, CA*

*04/2008 – 08/2009*

**Lockheed Martin: Solar and Astrophysics Laboratory** *(Programmer Intern)*

* Interactive Data Language (IDL) programming to analyze SECCHI satellite data under mentorship of two researchers.
* Contributed code and improved documentation of their internal codebase, as well as optimizing the data processing of satellite data into common image/video formats through a combination of IDL, Python, and AppleScript.

**Personal Projects**

**Freelancing** *(Coding, Writing, Designing)*

*Palo Alto, CA*

*2007 – Present*

* Consulting for 40+ clients on a variety of projects: scraping, cross-browser compatibility, and building local business’ websites
* Took on creative projects in design (Photoshop, Bridge RAW editing, InDesign) and writing (Reviews, Content Writing, Tutorials)

**Stocks Analysis & Visualization** *(github.com/eddieberklee/info-stocks)*

* Analyzed Apple’s stock performance by correlating changes in stock price with product release dates (product information scraped from Wikipedia).
* Team of 2 (including me). Coded the web scraping, accessing the stocks data via the Yahoo Finance API, and JavaScript for integrating an interface in the iPython notebook with our code.

**New Episode SMS Notifier** *(github.com/eddieberklee/new-episode)*

* Ruby on Rails app deployed to Heroku to text my phone (Twilio API) whenever a new episode was released for a TV show I watch on CrunchyRoll.com.
* Team of 1 (including me). Designated a special URL for a cronjob (done via EasyCron.com) to hit every thirty minutes which triggered my ruby code to scrape CrunchyRoll’s website and text me when a new episode is released.

**Code Trial App** *(codetrial.herokuapp.com)*

* “Best Use of Twilio API” Award at PennApps Hackathon (Fall 2013).
* Coding challenge platform built on Ruby on Rails for employers to record candidates solving a problem while talking it through.
* Team of 4 (including me). Implemented real-time recording of typing and audio, merging the two into a playable video.

**Meet in the Middle App** *(mitm.herokuapp.com)*

* Hackathon app built with Flask that allows friends to pinpoint the geometric median of their GPS coordinates and find nearby cafés and restaurants to meet at.
* Team of 3 (including me). Implemented the back-end code for integrating with the Yelp API and the mobile front-end.

**Skills**

**Languages**: Python, Java, Ruby, C/C++, Perl, PHP, Javascript, Korean.

**Back-end Development**: Django, Ruby on Rails, Flask (Python), Sinatra (Ruby), PHP (CodeIgniter).

**Front-end Development**: HTML, CSS, Javascript, jQuery, and (Haml, Sass, CoffeeScript).

**Applications**: Matlab (GUI programming), Eclipse, Solidworks/AutoCAD, Photoshop, Flash, InDesign.

**Miscellaneous**: Git, SVN, Vim, LaTeX, Linux (Fedora, Ubuntu, FreeBSD), gdb, tmux, Heroku, Amazon Web Services.

**Interests**

Hackathons, Photoshop/UX, Fitness, Snowboarding, Drawing, Guitar/Ukulele, Piano, Cooking, Automation, DIY Projects.