

# Richard Zheng

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217 E.Commonwealth Ave. Apt.B, Alhambra, CA 91801

## Education

University of California San Diego, San Diego, CA

Current Undergraduate Student in Computer Engineering Major

Expected Graduate June 2017

## Experience

### **SAN DIEGO SUPER COMPUTER CENTER (SDSC), LA JOLLA, CA**

#### **SOFTWARE DEVELOPER**

#### **JAVA**

**2015 SEPTEMBER - PRESENT**

- Independently developing a REST API Service for Cyber Infrastructure for Phylogenetic REsearch (CIPRES)
- Creating a MrBayes plugin for the Geneious application

### **INSTITUTE OF ENGINEERING IN MEDICINE (IEM), LA JOLLA, CA**

#### **WEB DEVELOPER**

#### **HTML/CSS**

**2014 DECEMBER - PRESENT**

- Creating and updating website pages for UCSD's Institute of Engineering in Medicine department
- Using the UCSD CMS web management and HTML to manage the website
- [iem.ucsd.edu](http://iem.ucsd.edu)

### **VISA INC./CYBERSOURCE, FOSTER CITY, CA**

#### **SOFTWARE DEVELOPER INTERN**

#### **JAVA**

**2015 JUNE - SEPTEMBER**

- Developed a RESTful web service that exposes the company's java library for encryption and decryption through an API
- Deployed the RESTful web service onto the company's HSM machine
- Optimized the RESTful API to process around 100,000 transactions per second on the HSM
- Conducted performance tests on the web service

### **FOUNDATION FOR LEARNING EQUALITY KHAN ACADEMY LITE (FLE KA-LITE)**

#### **SOFTWARE DEVELOPER**

#### **PYTHON**

**2014 SEPTEMBER- 2015 JANUARY**

- Optimized the load time of the interface by 20%
- Configured SanDisk Connect Wireless Media Drive, which set up the devices as servers
- Configured and installed the program onto Beaglebone Black
- Participated in group project planning
- <https://learningequality.org/ka-lite/>

## Personal Project

- [www.richardzheng.com](http://www.richardzheng.com)
- Smart Home Alarm Application (Python, Django, Tkinter/ttk, HTML, JavaScript)
  - Implements an alarm system, Google Maps API, Google Calendar API, OAuth2.0, and Yahoo Weather API
- Foodar (Swift, Xcode)
  - An iOS app that allows users to randomly pick a restaurant near them according to their preferences
- Triton Battles
  - A 11 people team built web application that is designed for students to create and study virtual index cards to prepare for upcoming exams
  - <https://tritonbattles.herokuapp.com/Homepage.html>
- Smart Home wall adapter controller (Python)
  - Wrote Python scripts to remotely control wall adapters through a cellular device or computer.
- Clash of Clans Troops calculator (Python, Tkinter/ttk)

## Skills

- Proficient languages: Java, HTML, Python
- Familiar languages: C, C++, Assembly, CSS, JavaScript, Swift, Ruby
- Experience with: Tomcat, Maven, REST, Web Services, Spring
- Tools: Eclipse, vi/vim, gvim, Dr.Java, Sublime. Xcode
- Proficient operating systems: Windows, Linux, Mac OS