

Richard Zheng

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<https://github.com/rjzheng>

Education

University of California San Diego, San Diego, CA

B.S. Computer Engineering

Expected Graduate June 2017

Experience

BULEAF

CO-FOUNDER

AUGUST, 2015 - PRESENT

- A startup that builds iOS applications focused on providing convenience to the general population

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

SOFTWARE DEVELOPER

JAVA

SEPTEMBER, 2015 - PRESENT

- Independently develop a REST API Service for Cyber Infrastructure for Phylogenetic REsearch (CIPRES)
- Create a MrBayes plugin for Geneious (Bioengineering software) with SWING interface
- Integrate the REST API Service with the plugin in Geneious's own framework

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

WEB DEVELOPER

HTML/CSS

DECEMBER, 2014 - PRESENT

- iem.ucsd.edu
- Create and update website pages for UCSD's Institute of Engineering in Medicine department
- Use the UCSD CMS web management and HTML to manage the website

VISA INC./CYBERSOURCE, FOSTER CITY, CA

SOFTWARE DEVELOPER INTERN

JAVA

JUNE, 2015 - SEPTEMBER, 2015

- 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

SEPTEMBER, 2014 - JANUARY, 2015

- <https://learningequality.org/ka-lite/>
- Optimized the load time of the interface by 20%
- Configured SanDisk Connect Wireless Media Drive and BeagleBone Black as servers for the web application

Personal Projects

Smart Home Alarm Application (Python, Django, Tkinter/ttk, HTML, JavaScript)

- A web application which consists of an alarm clock, navigation, and a list of calendar tasks to start your day
- Implement an alarm system that is built with python with the basic Tkinter interface
- Include an user account system which saves users' settings through Django
- Integrate Google Maps API, Google Calendar API, OAuth2.0, and Yahoo Weather API for core functions such as the map and calendar task list.

Foodar (Swift, Xcode)

- An iOS app that allows users to randomly pick a restaurant near them according to their preferences
- Integrate the Yelp API to fetch lists of restaurants according to the users' preferences
- Include a swiping interface to allow users to easily pick their restaurants
- Navigate users to the restaurant using maps

Triton Battles(MEAN Stack)

- <https://tritonbattles.herokuapp.com/Homepage.html>
- An 11 people team built web application that is designed for students to create and study virtual index cards to prepare for upcoming exams

Skills

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