

Technical Skills

Languages: C++, Python, PHP, Ruby, HTML5, CSS3, Javascript, SQL(mysql/PostgreSQL)

Frameworks/Libraries: Flask, Boost library, Knockout.js, jQuery, SQLAlchemy, Moodle, Compass/Sass

Others: Git/Github, Docker/Vagrant, AWS

Project Experience

Home Away From Home App - github.com/joeydlee95/Home-Away-From-Home October 2017

- Developed a single-page application using Google Maps API, Foursquare API, and AJAX calls featuring locations with multiple functionalities
- Utilized Knockout.js framework to simplify button functions interacting with the map.
- Designed AutoComplete to finish location searches biased towards places in the current maps view and favoring places with high popularity.

Let's Hear Together App - github.com/joeydlee95/Lets-Hear-Together September 2017

- Developed a content management system using the Flask framework to create requests handlers and handle server-side errors.
- Created authentication process via OAuth for Google and Facebook logins.
- Designed PostgreSQL database with two-layers of CRUD operations and used SQLAlchemy for the interaction in Python.

Just Enough C++ Server - github.com/joeydlee95/Just-Enough March 2017

- Used Boost.Asio library for TCP connections and HTTP sessions, Nginx for parsing config files, and implemented handlers for server.
- Created unit tests using googletest and googlemock and integration tests using Python.
- Deployed the server inside a Docker image on AWS on Linux 14.04 LTS environment.

Work Experience

UCLA Social Science Computing - Instructional Programmer Los Angeles, CA | June 2016 - June 2017

Developer on a LAMP stack for UCLA course pages built on Moodle Framework

- Implemented new module classes in PHP to enhance functionality for users with specified roles and fixed deprecated functions from framework upgrades.
- Experienced in agile workflow with bi-weekly sprints using ticketing softwares like Jira and Redmine.
- Used Behat for automatic testing for continuous build of course webpages.
- Applied Compass framework to compile Sass extensions for CSS.

Education

Udacity - Full Stack Developer Nanodegree

October 2017

UCLA - B.S. Mathematics in Computation

June 2017

Relevant CS Classes - Algorithms & Data Structures, Operating Systems Principles, Software Engineering, Networks, Artificial Intelligence, Software Organization & Construction

Relevant Computational Math Classes - Optimization, Mathematical Modeling, Mathematical Imaging