

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

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- 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

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- 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

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- 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