

## 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/trip-travel](https://github.com/joeydlee95/trip-travel) October 2017

- Developed a single-page application using Google Maps and Foursquare API featuring locations with multiple functionalities
- Utilized Knockout.js framework to simplify button functions interacting with the map.
- Loaded Javascripts asynchronously, utilized AJAX calls, and parsed JSON files.

**One Stop Playlists App** - [github.com/joeydlee95/One-Stop-Playlists](https://github.com/joeydlee95/One-Stop-Playlists) 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](https://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 about 50,000 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