

## Education

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### University of California, Los Angeles - *B.S. Mathematics in Computation*

- **Graduated:** 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

## 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 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.

## Technical Skills

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**Proficient:** C++, Python, HTML, CSS, JavaScript, PHP, SQL(MySQL/PostgreSQL)

**Previous Experience:** Ruby on Rails, Flask, Boost.Asio, Knockout.js, Angular.js, Node.js (Express.js), NoSQL(MongoDB/Mongoose)

**System and Tools:** Git/Github, Docker/Vagrant, AWS (EC2/Lightsail), Socket.IO

## Project Experience

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

*Knockout.js, jQuery, Google Maps API, Foursquare API, Bootstrap, JavaScript*

- Developed a single-page application using Google Maps and Foursquare API to get location data and provide content inside Google infowindows.
- Utilized Knockout.js framework to simplify button functions interacting with the map and separate concerns to MVVM.
- Loaded JavaScript 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

*Python, Flask, SQLAlchemy, OAuth2.0, PostgreSQL*

- 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 CRUD operations and used SQLAlchemy for data inserts and access.

### Just Enough Webserver - [github.com/joeydlee95/Just-Enough](https://github.com/joeydlee95/Just-Enough) March 2017

*C++, Boost.Asio, Nginx, googletest, Python, AWS(EC2 instance), Docker*

- 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.