Joey Lee

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Job Experience

Instructional Programmer at UCLA Social Sciences Computing (June 2016-July 2017)
Developer on a LAMP stack for UCLA course pages built on Moodle.

- Implemented new module classes (PHP) to enhance the functionality for users with specific roles and fixed deprecated functions during upgrades.
- Experienced in agile workflow with weekly sprints and ticket softwares like Jira and Redmine for tracking issues/bugs.
- Used Behat for automatic testing the continuous build of the course website.
- Applied Compass framework to compile Sass extensions for CSS.

Projects

Developer for Home Away App (September 2017)
Developed a single page application featuring locations on a map in Seattle with functionalities and third-party data on the locations.

- Combined Google Maps APIs, Foursquare API and AJAX calls to create the map and its functionalities.
- Utilized KnockoutJS framework to simplify dynamic Javascript UIs with MVVM pattern.
- Designed AutoComplete to finish location searches biased towards places in the current view of the map.
- Enabled directions to get to a location via a method of transportation and within a time constraint.

Developer for Hear Me Out App (August 2017)
Developed a content management system using the Flask framework in Python.

- Created authentication process via OAuth for Google and Facebook logins.
- Implemented JSON endpoints that serve the same information as displayed with HTML endpoints.
- Used SQLAlchemy to interact with the PostgreSQL database.
- Designed handlers for two-layers of CRUD operations and the front-end CSS and HTML styling.

Developer for Just Enough Web Server (January-March 2017)
Part of a Software Engineering team for C++ Webserver on Linux 14.04 LTS environment.

- Used Boost.Asio library for TCP connections (HTTP sessions), Nginx for parsing the config file, and implemented an authentication handler.
- Made unit tests using googletest and googlemock, and integration tests.
- Deployed on AWS with shrunken Docker images.
- Implemented multi-threading for the server request handling.
- Automated builds using GNU Make for testing and production.

Skills

Proficient With:
- C/C++
- Python (Flask)
- PHP
- SQL (MySQL and PostgresSQL)
- Unix Environment/Bash

Experienced With:
- HTML/CSS
- Javascript (Knockout)
- Ruby On Rails

Tools and Systems:
- Documentation
- Coding Standards
- Git/Github
- Agile Development
- Docker /AWS

Education

University of California, Los Angeles (UCLA)
- Graduated: June 2017
- B.S. Mathematics in Computation

Relevant Coursework:
- Optimization
- Mathematical Modeling/Imaging
- Software Organization & Construction
- Operating Systems Principles
- Algorithms & Data Structures
- Software Engineering
- Networks
- Artificial Intelligence