John Gamboa

B.S. Computer Engineering (June 2017)
UC San Diego
GPA: 3.1

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Experience

Software Developer Intern ● Perspectium Corp.
Summer 2016
San Diego, CA
- Designed and developed various UI features of Observer and Dashboard web applications which provide solutions for ServiceNow and Salesforce developers to monitor and analyze instance metrics.
- Implemented new Java EE features of Replicator Agent, a replication and synchronization data replication cloud service which propagates ServiceNow data to other ServiceNow instances or databases, and message broker service which brokers messages between Replicator Agents and ServiceNow instances.
- Built tools for internal database table editor and archive viewer web applications which optimized user experience by providing a quicker and more intuitive solution for data lookup and editing.
- Performed quality assurance testing to ensure robustness of features and discover and resolve defects.

Software Engineering Intern ● Reflexion Health, Inc.
Summer 2015
San Diego, CA
- Designed and developed new features of AngularJS web clinician application that allows clinicians to customize physical therapy exercise plans to be completed by patients via Kinect/Unity patient application.
- Built hybrid application proof-of-concept using AngularJS and Ionic that allows patients to track therapy session exercise progress and to perform/self-report exercises on mobile.
- Visualized patient data and constructed software version watcher of Data Analytics internal application using Ruby on Rails, C3.js and AngularJS.

Involvement

Organizer, Tech Team Member ● SD Hacks
January 2016 - present
- Responsible for developing technical aspects of hackathon and providing technical support during event. Integrated and managed open-source mentor queue that allows participants to request for mentors during the hackathon.

Micromouse Assistant Team Lead ● IEEE UCSD
October 2013 - May 2016
- Co-lead team of five in building software aspects of autonomous robot involving writing maze-solving flood-fill algorithm and implementing maze-mapping algorithm using Arduino and C.

Tech Team Member ● UCSD Circle K
Summer 2014
- Implemented front-end aspects of organization's AngularJS site with team of five designers and developers by building a smooth and appealing interface that allows users to easily register for, create, and view social and service events and look up organization information.

Projects

ItzLit
- Web application designed to provide users safe and lit routes calculated based on street light density visualized as a heat map from 2012 San Diego City street light data. Maps live crime data in San Diego and visualizes UC San Diego DELPHI aggregated crime data from San Diego using D3.js to provide users information about crime history.
- Newsfeed feature allows users to communicate to other users about commute conditions and safety. Built with jQuery, Node.js, Express, MongoDB, Bootstrap, D3.js, Socket.io, Google Maps API, PassportJS.

YOUber
- Web application designed to help potential Uber drivers find out which San Diego areas will maximize business based on the type of Uber vehicle based on population, family income, and house value data provided by UC San Diego DELPHI platform.
- Built with Google Maps API, Node.js, Express, MongoDB, jQuery, Bootstrap.

Tritoned
- Web application designed for giving and receiving workout tips and socializing and sharing the conditions of workout locations near UC San Diego.
- Built with Node.js, Express, MongoDB, Passport.js, Socket.io, Twitter API, jQuery, MaterializeCSS.

StudyBuddy
- Web application designed to allow users to easily search, join and create course study groups. Led team of two student designers in planning and building application, spearheaded development of front-end and back-end aspects, led and coordinated team meetings.
- Built with AngularJS, Node.js, Express, Parse, Bootstrap.

FitKit
- Android application built by team of five developers that keeps track of the user's health profile, body mass index, and calorie intake.
- Implemented back-end solution using Parse, led and coordinated team stand-up meetings, wrote tests to verify basic functionality.

Skills

- Proficient in JavaScript, AngularJS, jQuery, Node.js, Express, MongoDB, Java, HTML, CSS
- Experience with React, C, SQL, Python; Balsamiq, InVision, Photoshop

Coursework

- Interaction Design, HCI Programming Studio, Usability and Information Architecture, Software Engineering, Design and Analysis of Algorithms, Advanced Data Structures, Basic Data Structures and Object Oriented Design, Principles of Computer Operating Systems