JOSE ALVARADO

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EDUCATION

University of San Francisco (USF), San Francisco, CA   May 2015
Masters of Science in Computer Science Emphasis: Entrepreneurship   **GPA: 3.8/4.0**
Courses: Algorithms, Network Programming, Data Mining, Distributed Software Development, Database Systems
Thesis: Patient Care iOS App

Willamette University, Salem, OR   May 2013
Bachelor of Arts in Computer Science and Mathematics, Minor: Physics

SKILLS

Programming Languages: Java, Swift, Objective C, Python, SQL, PHP, Javascript (Node.js)
Languages: Fluent in English, Proficient at Spanish

THESIS PROJECT AT USF

Patient Care iOS App   January 2015 - May 2015
iTunes Link: Coming Soon
Purpose: Facilitate the monitoring of patients' health for their caregivers
- Developed an iOS app from beginning to end using Objective-C with Xcode
- Designed the user interface and implemented it using iOS Storyboards
- Supports Patient and Caretaker registration and login
- Implemented local push notifications, GPS tracking, email forwarding, and the ability to export events to iCalendar
- Incorporated Google Maps SDK to visually track patient movement
- Makes use of the accelerometer to make an emergency call to the caretaker in case the patient falls
- Backend makes use of a Java API running on an AWS instance with a MySQL database

WORK EXPERIENCE

iOS Lead Developer: ThisWon, San Francisco, CA   May 2015 - July 2015
iTunes Link: Coming Soon
- Independently created the Swift app and it's corresponding Parse backend
- Designed the user interface and implemented via iOS Storyboards
- Integrated Facebook login and social sharing

iOS Engineer: PeerSpace, San Francisco, CA   February 2014 - April 2015
iTunes Link: https://itunes.apple.com/us/app/peerspace-find-or-list-meeting/id823879288?mt=8
- One of the three original developers of the iOS app
- Successfully submitted multiple updates to the iOS code repository and to the app store
- Developed test cases for the iOS app that call the client API using Kiwi
- Integrated third party SDKs such as MixPanel and Stripe
- Developed Node.js APIs for notifications, favorites, and the review system that are called directly from the client API
- Developed a system administration portal to help PeerSpace communicate with users and monitor the platform

Web Developer: Who2.com, San Francisco, CA   May 2013 - April 2014
- Transitioned existing site from a MySQL database via the Drupal CMS to a statically served site with Python
- Improved the design and layout of every page on the site, and increased the sites response time
- Modified the content such as adding or editing blog posts, photos, and bios

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iOS Application Developer: Center for Algebraic Thinking, Salem, OR   June 2013 - August 2013
- Independently designed, developed in Objective-C, and distributed 2 native iPad applications on iTunes
- Applications intended to help elementary and middle school students learn algebraic concepts

INDEPENDENT PROJECTS

Vota iOS App   August 2014 - Present
iTunes Link: https://itunes.apple.com/us/app/vota!/id898611816?ls=1&mt=8   (Seasonal)
Purpose: Increase U.S. Latino interest and participation in midterm elections and beyond
- Independently developed the universal iOS app from beginning to end using Objective-C with Xcode
- Designed the user interface and implemented via iOS Storyboards
- Integrated Facebook login and social sharing
- Uses a Parse database in the backend with a Javascript API and push notifications configured

DonsOnDons.com Web App   February 2014
Purpose: Build an online dating platform for the USF community
- Independently developed the app using Bootstrap, HTML, CSS, Javascript, JQuery, PHP, and a MySQL database
- Website was configured on an Amazon AWS Instance Server

UNIVERSITY OF SAN FRANCISCO ACADEMIC PROJECTS
GitHub Account: https://github.com/josealvarado
These are public repositories available for anyone to access

Database Management System : Database Systems   January 2015 - May 2015
- Developed a Java database management system that supports CREATE, INSERT, and SELECT SQL commands
- Input SQL commands interactively or read a .sql file that contains a list of SQL commands
- Parse .csv files and build a table for each where each table is saved to disk
- Generate and save to disk a Linear Hash index for 2 columns for each table or load previous generated indexes
- Implemented a query optimization engine to handle join over 2 tables

Twitter-like Microblogging Service : Distributed Software Development   September 2014 - December 2014
- Developed a Java microblogging service which supports creating new tweets and searching by hashtag using a two-tier architecture
- The frontend consists of multiple multi threaded HTTP servers where each server maintains a local cache of the search results. The backend is a replicated, fault tolerant data storage system that implements the election algorithm in case of server failure
- A discovery service was implemented to support dynamic addition of new servers and detection of failed servers

Mining League of Legends Data: Data Mining   September 2014 - December 2014
- Developed a Python script that called the Riot Games API to gather the League of Legend match data
- Modeled and implemented machine learning algorithms such as Naive Bayes, Decision Tree, and K-Means to analyze the patterns/features needed to determine the outcome of a match

Web Search Engine : Software Development   September 2013 - December 2013
- Developed a Java search engine featuring a multithreaded web crawler, thread-safe inverted index, with weighted partial search capability
- Developed a web user interface that supported user registration and authentication using JDBC and MySQL