Derek Park

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EDUCATION

University of California, Irvine, Computer Science B.S. 2017
Cum GPA 3.52

Favorite Courses: Advanced Computer Networks, Advanced Database Management, Artificial Intelligence, Computer Simulations, Mobile Applications

PROFESSIONAL EXPERIENCE

Software Development Intern   Jan 2016 - June 2017
Rockwell Automation   Mission Viejo, CA

- Created solutions for VantagePoint, Rockwell Automation's Mobile Web Application, using primarily JavaScript in the AngularJS framework within an Agile environment
- Improved User Interface, frequently collaborating with UX engineers to heavily revamp pages with bootstrap and complex CSS
- Maintained code scalability by creating new unit tests for each development story using the Jasmine testing framework
- Ensured end-to-end functionality by writing automated tests to simulate a variety of full use cases. Tests were written and driven using the AngularJS testing framework, Protractor
- Constructed automated tests for ViewE, Rockwell's Embedded System Terminal, using Rockwell's own proprietary automated testing framework (TAF)
- Created a test script to automate previously manual tasks, improving efficiency as well as precision by over 10%

Teaching Assistant   Jan 2015 - June 2015
Jack Baskin School of Engineering   Santa Cruz, CA

- Assisted Professors for three different Computer Science classes: Introduction to Computer Science, Introduction to Programming (Accelerated), and Intermediate Programming
- Facilitated weekly lab sections to introduce new assignments and provide assistance in any course matters
- Designed future programming assignments

PROJECT EXPERIENCE

NoWait
Android Application; Java, Android OS

- Android application that used user-reported data to estimate and display the waiting time of locations of interest (restaurants, museums, parking lots, etc.)

Walk to Mordor
Android Application; Java, Android OS

- Android application to encourage fitness by relating a users' walking distance the Frodo's journey from Hobbiton to Mount Doom

Fabflix
Full-stack Web Application; MySQL, Java, JSP

- Full-stack web application capable of searching a database of movies and adding to a cart for movie rental
- Used JDBC (Java Database Connectivity) API to write and execute complex MySQL queries to support searches consisting of multiple words for different combinations of fields
- Included a UI for browsing movie selections via genre, director, date, or title
- Implemented using a MySQL database, Apache Tomcat servlet, and deployed on an AWS instance

SudokuSolver
Artificial Intelligence; Java

- A.I. Sudoku Solver that used Constraint Satisfaction Problem methodologies in solving algorithms
- Could solve any sudoku board of varying complexity within seconds or let the user know that the puzzle has no valid answer

Search Engine
Python

- Search engine that could retrieve and rank URLs of HTML pages based on relevance to a query
- Used the Flask API to get the users' search query from a simple web page

Languages & Skills

- Java, C, C++, C#, Python
- JavaScript, jQuery, AngularJS, ReactJS
- Node.js, MySQL
- Agile Development
- HTML/CSS, MySQL

Technologies

- Cisco Routers (Terminal Configuration)
- AWS
- Linux
- Windows/Windows Server
- Git/Subversion (TortoiseSVN)