Gurnaaz Randhawa

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Education

University of California, San Diego

Bachelors of Science in Computer Science, expected June 2017

Overall GPA: 3.39

Provost Honors of 3.5+ GPA (Spring & Fall 2015)

Related Skills

Coursework:

1) Advanced Data Structures

2) Database System Principles

3) Algorithms

4) Networked Services

5) Software Engineering

6) Object Oriented Programming - Java

Programming Languages/Frameworks:

4 years of Java; other languages/frameworks known: JavaScript, Android, C++, HTML, CSS, XML, C, Python, Node.js

Software Tools/ Operating System Platforms:

Eclipse, Microsoft Visual Studio, Linux, J-unit testing, Vim, Android Studio, gVim, Sublime Text, Git

Work Experience

Software Engineering Intern   **June 2016 – September 2016**

Verizon Labs

- Designed a web app using HTML, CSS, JavaScript, and jQuery, while integrating the React.js framework, that allows users to view statistics of their Verizon IPTV set-top box
- Created a Rest API in C++ using FastCGI that displayed diagnostics of a set-top box in JSON format using RapidJSON; it is now situated on every set-top box
- Incorporated the JSON data into JavaScript charting libraries such as D3 and Rickshaw Charts while supporting real-time and dynamic functionality
- Built stronger communication and leadership skills by presenting to executives and VPs regarding my project and its importance

Product & Software Developer Intern   **June 2015 – September 2015**

Verizon

- Responsible for creating test scripts in Python and Bash that were used by the applications team for daily automation of the FiOS set-top box
- Created a graphical interface using HTML, CSS, JavaScript, and jQuery that took information from a CGI script and displayed the information in different charts using Chart.js
- Strengthened software skills while building stronger teamwork & interpersonal skills by working in a business environment

Android Application Developer Intern   **August 2014 - September 2014**

KidGenius

- Fixed bugs in the company's upcoming application in Java using Eclipse by testing different user scenarios for correct functionality
- Added changes in XML using Eclipse to improve the visual design of the application and improve the user experience
- Improved time management skills, and demonstrated strong self-directed learning and multitasking throughout the internship

Project Experience

TritonTransfer   **Winter 2017**

- Implemented a protocol for block file transfer based on Dropbox in Python by developing a distributed service using the RPC framework and Apache Thrift while utilizing caching
- Supported fault tolerance via read and write quorums and by adding a fail-safe cluster with multiple servers

Coolr   **Fall 2015**

- Built an Android Application in Java using Android Studio that allows users to keep track of the contents of their personal refrigerator, reminds users when their food is about to expire, and gives nutritional facts about their food
- Incorporated FatSecret's food and nutritional API as well as SQLite databases to successfully store user's food

Go-To Weather   **Summer 2015**

- Designed an Android application in Java and XML using Android Studio that displays the seven-day weather forecast for a user-inputted city
- Integrated Google's Autocomplete & OpenWeatherMap's APIs, customized list views, and SQLite databases into the application

6 Degrees of Kevin Bacon   **Winter 2015**

- Wrote a program in C++ that finds the shortest path between a user's specified actor and Hollywood actor Kevin Bacon
- Employed unordered_maps, Djikstra's Algorithm, and traversal algorithms to successfully complete the program