

# Gurnaaz Randhawa

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## Education

University of California, San Diego

**Bachelors of Science in Computer Science**, expected June 2017

Overall GPA: 3.31

Provost Honors with 3.5+ GPA (Spring 2015)

## Related Skills

### Coursework:

- |                                              |                                                         |
|----------------------------------------------|---------------------------------------------------------|
| 1) Advanced Data Structures                  | 4) Intermediate Programming Methodologies in C++        |
| 2) Computer Organization/Systems Programming | 5) Components and Design Techniques for Digital Systems |
| 3) Advanced Discrete Mathematics             | 6) Object Oriented Programming - Java                   |

### Programming Languages:

3 years of Java; other languages known: C++, HTML, CSS, XML, C, SPARC assembly, Python, JavaScript, Bash

### Software Tools/ Operating System Platforms:

Microsoft Visual Studio, Eclipse, Windows, LINUX, J-unit testing, VIM, Android Studio, GVIM

### Personal Skills:

Persistent and driven; excellent work habit skills. Eager, quick learner with strong team work spirit.

## Relevant Work Experience

### Product & Software Developer Intern

**June 2015 - Present**

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
- Designed a graphical interface using HTML, CSS, JavaScript, and jQuery that displayed set-top box statistics by incorporating data into dynamic, real-time charting libraries; it was primarily utilized for set-top box diagnostics
- Strengthened software skills while gaining much experience working in a business environment full-time

### Android Application Developer Intern

**August - September 2014**

KidGenius

- Discovered possible bugs in the application in Eclipse using Java and added changes using XML to improve the visual design of the application.
- Improved time management skills, and demonstrated strong self-directed learning and multitasking.

## Other Work Experience

### Mathematics Tutor

**June - September 2013, 2014**

Kumon

- Tutored as many as 50 children weekly in upper-level mathematical subjects.

### Marketing Intern

**June - August 2012**

Time To Save

- Developed marketing strategies with supervisors and implemented them through various means.
- Advanced teamwork and communication skills as there were multiple people with different specialties all working together to achieve a common goal.

## Project Experience

### Go-To Weather

**Summer 2015**

- Invented an Android application that displays the weather forecast for a user-inputted city
- Utilized Google's Autocomplete API, OpenWeatherMap's API, and customized list views to implement the application

### 6 Degrees of Kevin Bacon

**Winter Quarter of 2015**

- Wrote a program in C++ that would find the shortest path between an user-inputted actor and Hollywood actor Kevin Bacon
- Employed unordered\_maps, Dijkstra's Algorithm, and traversal algorithms to fully implement the program

### Speedy Text

**Summer 2014**

- Created an Android application where users are prompted words and are required to type as many as possible within a certain time frame
- Used complex Android concepts such as Splash Screens, Shared Preferences, MediaPlayer to name just a few

### Java Calculator

**Spring Quarter of 2014**

- Programmed an advanced calculator program that handles numerical quantities including physical and other units in Java using Eclipse.
- Applied the concepts of a Tokenizer and Abstract Syntax Tree to break up the user's input and properly calculate and output the result.