

# Harmannat (Nonie) K Grewal

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## Education

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University of California, San Diego

Bachelor of Science, Computer Science

Expected Graduation: December 2015

GPA: 3.4

## Experience

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Software Engineering Intern

Cisco Systems

June 2013 – September 2013

- Built and designed an iPhone application to increase efficiency of location services testing
- Increased performance and efficiency of wireless site surveys through robotic programming
- Integrated mobile application to existing server application integral to business unit
- Updated and added features to Android application to enhance performance

Languages Used: Objective-C, C, Java

Technologies Used: Xcode, Eclipse, Web Servers

## Projects

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Java Applet

Winter Hackathon

2011

- Built java applet game and demonstrated object oriented action methods
- Designed and created game interface

Languages Used: Java

Robotic Programming

January 2012 – March 2012

- Programmed a Scribbler Robot to successfully navigate an obstacle course utilizing built-in light sensors
- Created and programmed robot to traverse complicated predetermined paths

Languages Used: Python

Computer Vision

Association for Unmanned Vehicle Systems

October 2012 – December 2012

- Implemented algorithms using OpenCV to dynamically stitch images that are grabbed from a local directory

Languages Used: C++

## Leadership

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Programming Competition Chair

Women in Computing at UCSD

2012 – Present

- Head of a competition planning committee
- Coordinate and handle logistics of quarterly competitions held on campus
- Delegate responsibilities and oversee processes from question writing to implementing solutions and running tests

Committee Member for Outreach

Society of Women Engineers

2011 – 2012

- Planned outreach event, Envision, to introduce high school girls to the possibilities of STEM career fields

## Relevant Skills

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Languages: C++, C, Java, Objective-C, HTML, CSS

Skills: Vim/GVim, Unix/Linux, iOS, Android

IDEs: Eclipse, Xcode

Concepts: Agile Development, Mobile Application, Unit Testing, Design Principles

## Relevant Coursework

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Advanced Data Structures

Computer Organization, Systems Programming, and Computer Architecture

Design and Analysis of Algorithms

(Fall 2013)