

# Justine Cocchi

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## Education

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B.S. in Computer Science and Business Administration

University of Southern California, May '16

GPA: 3.36

Viterbi Study Abroad Program in London (June – July '13)

- Was the only Freshman student admitted to Viterbi's most competitive summer program
- Excelled in two upper division courses, writing for engineers and economics of engineering

## Skills

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Applications: MS Word, Excel, PowerPoint, Eclipse, VirtualBox, Rational Application Developer

Programming Languages: Java including JUnit testing, C/C++, Python

Platforms: Mac OS X, Windows, Linux

## Projects

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### *Sim City (Group Project)*

- Worked as team lead on a multithreaded program in Java utilizing agent methodology to simulate a city complete with houses, apartments, banks, markets, and five distinct restaurants. Users can add citizens and pick a job for them, residents can drive a car to work, take a city bus, or walk. A\* algorithm implemented to determine walking path of citizens.

### *Side-Scroller Game*

- Imagined and realized a side-scroller game called "Road Kill" using C++ and QT to support graphics simulating a user driving a car. Squirrels and opossums walk across the screen giving the driver chances to hit them and earn points. Driver must avoid trees that popup and pedestrians that walk across the screen at random. Implemented AI to add difficulty.

### *Social Network*

- Designed a command line based social network using C++ with the capability to add users, create and remove friend connections between users, and assess the betweenness centrality score of any given user based on analyzing the edges of the entire social graph.

### *Introduction to Digital Logic*

- Learned basics of digital logic: Boolean algebra, Boolean functions, binary arithmetic, combinational logic devices, sequential circuits, state machine design and implementation.

## Professional Involvement

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### *IBM Internship*

May – August '14

- Tested the IBM Security Privileged Identity Manager product and became familiar with practical applications of databases as well as testing programs in a corporate environment

### *VP Student Affairs, Society of Women Engineers (SWE)*

August '14 – May '15

- Organized events to foster academic, professional, and social member development

### *VP Operations, Alpha Gamma Delta*

Nov – Dec '14

- Tracked chapter wide attendance to ensure that girls fulfill their obligation to AGD, assigned fines to girls as needed, took minutes at all meetings at the chapter, officer, and executive levels, completed and updated chapter paperwork as needed

## Awards and Achievements

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Girl Scout Gold Award (Boy Scout Eagle Award equivalent)