

# rachit kataria

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## + employment

### Apple

Software Engineering Intern

Cloudkit Client Team - iOS Apps and Frameworks Organization

Cupertino, CA

May 2016 to Aug 2016

### USC Department of Computer Science

Course Producer for CSCI 103: Intro to Programming

Los Angeles, CA

Aug 2016 to Current

## + projects

### WatchBand - A Real Time Musical Immersion (Stanford TreeHacks, Feb. 2016)

- Created a WatchOS application with which users can strum and drum air-instruments to the beat of their favorite tunes
- Leveraged WatchKit and CoreMotion Swift frameworks to detect motion by measuring real-time accelerometer data of the Apple Watch and Siri Remote

### Quark - Interactive Video Manipulation and Audio Playback Control (USC Hack SC, Nov. 2015)

- Created a multiplayer Apple TV application where each player is able to manipulate video in real time with different iPhone gestures. App also allows for control of audio stream playback by scanning the corresponding QR codes
- Used the Core Image framework and Swift to create versatile image filters which were applied to individual video frames

### Sonder - Tap into the World Around You (UCSD SD Hacks, Oct. 2015)

- Implemented the front-end UI of a social media platform which crowdsources anonymous compliments from users creating a sphere of positivity using Objective-C

### DARMS: Dynamic Aviation Risk Management System (Teamcore Research Group, Nov. 2015 - Mar. 2016)

- Applied input game theory algorithms in Unity and Java to create a large-scale, robust 3D simulation of current TSA DARMS airport protection measures

## + activities

### Hack SC - The Premier Hackathon at USC

Jul 2016 to Current

Project Lead and Co-Head of Logistics

- Leading a team of seven in the organization and execution of Hack SC, USC's largest hackathon (800+ students)
- Developed a unique thematic structure of the hackathon that centers around social, economic, racial, and gender inequalities

### Spark SC - The Premier Student-led Entrepreneurship Initiative at USC

Aug 2015 to Current

USC Hackers Lead (Current)

- Founded and facilitating a new initiative on campus that aims to bring together all computer science related organizations on campus for the first time in USC history

Startup Career Fair Lead (Jan. 2016 to May. 2016)

- Led a team of five students in organizing, hosting, and facilitating a campus-wide career fair with some of LA's top startups
- Raised over \$6,000 for Spark SC's future endeavors

Safari Bay Trip Lead (Jan. 2016 to May. 2016)

- Spearheaded a Spark SC trip of over 40 students to Bay Area's top tech companies in order to get a better insight into the culture and current advancements in the industry
- Organized fireside chats with top executives, including Twitter's VP of Engineering and Sony Playstation's Director of VR

Hack "Knights" Program Lead (Aug. 2015 to Dec. 2015)

- Established a "Hack Knight" mentorship program for our biweekly hacking events: an inclusive space for all computer science students to code, mingle, and develop amazing projects

### USC Association of Computing Machinery

Aug 2015 to Current

### USC Trojan Scholar Society

Aug 2015 to Current

## + education

### University of Southern California

B.S. Computer Science 2019

Minor: Entrepreneurship

GPA: 4.0 / 4.0

### Lynbrook High School

2015

Valedictorian - GPA: Unweighted 4.0 / 4.0

## + awards

### Apple App Store Marketing Challenge - 2nd Place

Aug 2016

Placed 2nd out of 30 intern teams, proposed an innovative product feature to significantly drive traffic to the App Store and enhance overall user experience

### USC Academic Achievement Award

Aug 2016

### Dean's List Scholar - Viterbi School of Engineering

May 2016

Fall 2015, Spring 2016

### Hack SC - Project Quark

Nov 2015

"Best iOS or OS X App" awarded by Apple

"Best Use of Visual Media" awarded by Disney

"Best First Time Hackathon Hack" awarded by Hack SC

### USC Trustee Scholar (Full Tuition Scholarship Recipient)

Jun 2015

Top 1% of all incoming Freshmen

### USC Viterbi Undergraduate Merit Research Fellow

Jun 2015

Top 40 of all incoming Viterbi Engineers

### USC W.V.T Rusch Undergraduate Engineering Honors Program Selectee

Jun 2015

Awarded to students in the top 10% of their respective incoming class and provides enriching academic and social opportunities

### National Merit Scholar

Jun 2015

Awarded by the National Merit Scholarship Corporation to 8,000 exceptional high school students out of over 1.5 million applicants nationwide

### AP Scholar with Distinction

May 2015

Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams

## + skills

### PROGRAMMING LANGUAGES

Swift

Objective-C

C / C++

Java

HTML

CSS

### OPERATING SYSTEMS

iOS

macOS

Windows

### TOOLS

Xcode

Eclipse IDE

Github

Visual Studio

Code