

# Rachit Kataria

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## EDUCATION

University of Southern California – Los Angeles, CA

(Expected) May 2019

B.S., Computer Science

Lynbrook High School – San Jose, CA

June 2015

Valedictorian – GPA: Unweighted 4.0 ACT: 35 SAT: 2300

## PROJECTS AND RESEARCH

Quark – An Interactive Way to Distort Audio and Video

Nov. 2015

- Created a multi-player Apple TV app, where each player is able to distort video with different iPhone gestures, players can also play different instruments by scanning corresponding QR Codes
- Worked with Core Image framework to create versatile image filters applied to iterations of local videos using Swift for OS X

Sonder – “Tap into the World Around You”

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 for iOS

DARMS: Dynamic Aviation Risk Management System (Teamcore Research Group)

Sept. 2015 – Present

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

## AWARDS AND ACHIEVEMENTS

HackSC Best First Time Hackathon Hack: Quark

2015

- Apple: Best iOS or OS X App
- Disney: Best Use of Visual Media

USC Trustee Scholar (Full Tuition) Recipient

2015

- Top 1% of all entering freshmen

USC Viterbi Undergraduate Merit Research Fellow

2015

- Top 5% of all Viterbi students demonstrating outstanding leadership potential and academic excellence

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

2015

National Merit Scholar

2015

AP Scholar with Distinction

2015

UC Berkeley Bio-Engineering High School Competition – First Place, Best Research

2014

Synopsys Silicon Valley Regional Science Fair – First Place

2013, 2014

California State Science Fair – Honorable Mention

2013

California State Summer School for Math and Science, UC Irvine – Leadership Award

2013

## ORGANIZATIONS

Spark SC - Premiere student-led entrepreneurship initiative at USC

2015

- Hack “Knights” Program Lead, TechLA Outreach Lead, Development Committee Board Member

USC Association of Computing Machinery

2015

USC Trojan Scholar Society

2015

Lynbrook Neuroscience Club

2011 - 2015

- President (2014-15) | Secretary (2013-14)

Lynbrook STEM Research Program

2013 - 2015

- Student Leader (2014-15) | Teacher Assistant (2013-14)

## SKILLS

Programming Languages: C/C++, Java, Python, Objective-C, Swift, HTML, CSS, Unity

Operating Systems: iOS, OS X, Windows

Tools: Xcode, Eclipse IDE, Github, Visual Studio Code