

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 – Interactive Real Time Video Manipulation and Audio Playback Control

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 for iOS to create versatile image filters which I applied to individual video frames

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: The Premier Hackathon at USC

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 **HackSC**

USC Trustee Scholar (Full Tuition) Recipient – Top 1% of all Entering Freshmen

2015

USC Viterbi Undergraduate Merit Research Fellow – Top 5% of all Viterbi Engineers

2015

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 - Premier 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

Santa Clara Valley Mathematics Association

2014 - 2015

- Student Chair (2014 - 15)

Lynbrook STEM Research Program

2013 - 2015

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

Lynbrook Neuroscience Club

2011 - 2015

- President (2014 - 15) | Secretary (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