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 Editing and Audio Mixing Nov. 2015
- Created a multiplayer Apple TV application where each player is able to edit video in real time with different iPhone gestures. App also allows for mixing of audio streams by scanning the corresponding QR codes
- Used the Core Image framework and <u>Swift</u> for <u>iOS</u> 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 <u>Objective-C</u> for <u>iOS</u>

DARMS: Dynamic Aviation Risk Management System (Teamcore Research Group) Sept. 2015 – Present
- Applying input game theory algorithms in <u>Unity</u> and <u>Java</u> 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 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 - 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
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