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 4.0/4.0 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 - Project Quark

2015

2015

2015

2013 - 2015

- "Best iOS or OS X App" awarded by **Apple**
- "Best Use of Visual Media" awarded by **Disney**
- "Best Newbie: Best First Time Hackathon Hack" awarded by HackSC

| USC Trustee Scholar (Full Tuition Scholarship Recipient) - Top 1% of all Entering Freshmen | 2015 |
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| 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 Hack "Knights" Program Lead, TechLA Outreach Lead, Development Committee Board Member

USC Association of Computing Machinery USC Trojan Scholar Society

2015 Santa Clara Valley Mathematics Association 2014 - 2015

Student Chair (2014 - 15)

Lynbrook STEM Research Program

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

2011 - 2015 Lynbrook Neuroscience Club

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