rachit kataria

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■ work experience

Facebook - *Incoming Software Engineering Intern* 05/2017 – 08/2017

Apple - *Software Engineering Intern* 05/2016 – 08/2016
- Independently designed and implemented a full-stack iOS sample code application using the CloudKit API framework to showcase existing and newly released features in iCloud.
- During the development process, I discovered and reported many showstopper bugs in various core modules across Apple's software stack and helped to refine some API(s) which were publicly released in iOS 10
- Presented work to the Director of the iOS Apps & Frameworks division and got stellar feedback

USC Department of Computer Science - *Course Producer* 08/2016 – Present
- As an undergraduate teaching assistant for CSCI 103: Intro to Programming, I manage C++ lab sessions, hold weekly office hours, and grade exams and assignments

USC Teamcore Research Group - *Undergraduate Research Fellow* 08/2015 – 03/2016
- Applied game theory algorithms in Unity and Java to create a large-scale, robust 3D simulation of current TSA Dynamic Aviation Risk Management System (DARMS) airport protection measures

■ projects

WatchBand – A Real Time Musical Immersion (Stanford TreeHacks) 02/2016
- Using the WatchKit and Core Motion Swift frameworks, I implemented the accelerometer controller of a watchOS application through which users can strum and drum air-instruments to the beat of their favorite music

Quark – Interactive Video Manipulation and Audio Playback Control (USC Hack SC) 11/2015
- Using the Swift Core Image and AVKit frameworks, I implemented the video and image filtering of a multiplayer Apple TV application which allows for real-time manipulation of video and audio using iPhone touch gestures and QR code recognition

Sonder – Tap into the World Around You (UCSD SD Hacks) 10/2015
- Using the Swift UIKit framework, I implemented the UI of a social media platform which crowdsources anonymous compliments from users creating a sphere of positivity

■ leadership

Hack SC – USC's Largest Hackathon (800+ students) 07/2016 – Present
- *Director of Hack SC and Co-head of Logistics*

Spark SC – USC's Premier Student-led Entrepreneurship Initiative 08/2015 – Present
- *USC Hackers Lead (Aug. 2016 – Present)*
- *Startup Career Fair Lead (Jan. 2016 – May 2016)*
- *Safari Bay Trip Lead (Jan. 2016 – May 2016)*
- *Hack "Knights" Program Lead (Aug. 2015 – Dec. 2015)*

■ skills

Programming Languages: C/C++, Java, Swift, Objective-C, HTML / CSS
Operating Systems: iOS, macOS, Windows
Tools: Xcode, Eclipse IDE, GitHub, Visual Studio Code

■ education

University of Southern California, Viterbi School of Engineering
B.S. Computer Science 2019
Minor: Entrepreneurship
Major GPA: 3.95 / 4.0

Lynbrook High School
High School Diploma 2015
Valedictorian, GPA: 4.0 / 4.0

■ awards

Apple App Store Marketing Challenge 08/2016
Placed 2nd out of 30 intern teams – pitched an innovative product feature idea to Apple's Senior VP of Worldwide Marketing and his executive team

Project Quark 05/2015
"Best iOS or OS X App" – Apple
"Best Use of Visual Media" – Disney
"Best First Time Hackathon Hack" – Hack SC

USC Trustee Scholar 06/2015
Full tuition merit scholarship awarded to the top 1% of incoming freshman

USC Academic Achievement Award 05/2016
Provides a tuition benefit to students with a GPA of at least 3.75 to pursue multiple undergraduate degree objective

Dean's List Scholar 05/2016
Fall 2015, Spring 2016, Fall 2016

USC Viterbi Undergraduate Merit Research Fellow 06/2015
Research grant of $2500 per year awarded to the top 40 incoming Viterbi engineers

USC W.V.T Rusch Undergraduate Engineering Honors Program 06/2015
Top 10% of incoming freshman engineers

National Merit Scholar 06/2015
Awarded by the National Merit Scholarship Corporation to 8,000 exceptional high school students out of over 1.5 million applicants nationwide