

rachit kataria

✉ rachitka@usc.edu 🌐 rachitkataria.me ☎ (408) 218-1005 in rachitkataria 📶 rachitkataria

■ work experience

Facebook - Incoming Software Engineering Intern	09/2018 - 11/2018
• Working on new products at Facebook's New York headquarters	
Shape Security - Incoming Software Engineering Intern	05/2018 - 08/2018
• 2018 KPCB Engineering Fellow	
Facebook - Software Engineering Intern	05/2017 - 08/2017
• Spearheaded development of a new text mode in Facebook Stories on iOS that leverages client-side native rendering on consumption to ensure crisp photo quality	
• Launched friend and page tagging in production on Facebook Stories, making the product more interactive and dynamic	
• Implemented an internal tool to promote client-side QA efforts and built a new, substantially improved testing flow to speed up development for employees across my division	
• Presented work to the Director of the Camera & Friend Sharing division and received high praise	
Apple - Software Engineering Intern	05/2016 - 08/2016
• Independently designed and implemented a full-stack iOS sample code application for Apple's Developer portal to showcase existing features using CloudKit APIs and a newly released service on iOS 10, iCloud Sharing	
• During the development process, I discovered and reported many showstopper bugs in various core modules across Apple's software stack and helped to refine CloudKit APIs which were publicly released in iOS 10	
• Presented work to the Director of the iOS Apps & Frameworks division and received stellar feedback	
USC Melady Lab Research Group - Undergraduate Research Fellow	11/2017 - Present
• Applying multiple deep learning survival models and data processing techniques to assess patient survival time analysis and risk of death for prostate cancer	
USC Department of Computer Science - Course Producer	08/2016 - 12/2017
• Undergraduate teaching assistant for CSCI 104: Data Structures and Object Oriented Design and CSCI 103: Intro to Programming	
• Mentored students on essential OOP concepts (polymorphism, abstraction, concurrency, inheritance), core data structures (linked lists, trees, queues, hash tables), and useful software tools (Github, gdb, Google Test)	

■ projects

Claire Bot - Impacting Homeless Youth through Artificial Intelligence (USC TrojanHacks)	03/2017
• Using API.AI's natural language processing functionality with the Facebook Messenger platform, I created a chatbot that provides resources for homeless youth on the go	
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 HackSC)	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	

■ leadership

HackSC - USC's Premier Hackathon (800+ attendees)	08/2016 - Present
• Director and Head of Logistics (Aug. 2016 - Present)	
Spark SC - USC's Premier Student-led Entrepreneurship Initiative	08/2015 - Present
• USC Hackers Lead (Aug. 2016 - May 2017)	
• 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
GPA: 3.95 / 4.00
Lynbrook High School
High School Diploma 2015
Valedictorian, GPA: 4.00 / 4.00

■ awards

KPCB Engineering Fellow	05/2018
Top 1% of 2,500 engineering applicants nationwide selected to join a KPCB portfolio startup, receive mentorship from industry luminaries, and form a close family of talented peers	
TrojanHacks - Claire Bot	03/2017
Placed in the Top 3 out of all hacks presented at ACM's TrojanHacks 2.0	
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	
HackSC - 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, Spring 2017, Fall 2017	
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	