

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

- Stronger** - Helping Opiate Addicts in Their Moments of Crisis (LA Hacks) 04/2018
- Using Swift 4 and the Google Cloud Vision APIs, I implemented the speech to text recognition and cognitive behavioral therapy portion of an iOS app that offers emergency methods to help addicts recollect their thoughts and ensures that they are not alone
- 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
- 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
- LA Hacks - Stronger** 04/2018
Placed 2nd place at the KEEN Innovation & Pitch Competition and awarded \$800 to pursue the project
- 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