

rachit kataria

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■ work experience

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| 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

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| 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

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| 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

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| 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

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| 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 | |