rachit kataria

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■ 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
- Working on machine learning and AI applications for cybersecurity

Facebook - *Software Engineering Intern*　　　　　　　　05/2017 – 08/2017
- Spearheaded development of a new text mode in iOS Facebook Stories and added client-side native rendering for crisper quality
- Launched friend and page tagging on Facebook Stories, making the product more interactive and dynamic
- Implemented an internal tool to automate QA efforts and built an improved testing flow to speed up development for cross-functional teams

Apple - *Software Engineering Intern*　　　　　　　　　05/2016 – 08/2016
- Independently designed and implemented a full-stack iOS sample code app for Apple's Developer portal to showcase existing and new features in CloudKit's APIs such as iCloud Sharing for iOS 10
- 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

USC ML and Data Mining Research Group - *Undergraduate Research Fellow*　　11/2017 – Present
- Applying multiple deep learning survival models and data processing techniques to assess patient survival time and risk of death from prostate cancer

USC Department of Computer Science - *Course Producer*　　08/2016 – 12/2017
- 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

Kaggle Data Science Bowl (USC CAIS++)　　　　　　　　04/2018
- Using Python 3, Keras, and Tensorflow, my team and I implemented a Mask-RCNN model that can detect nuclei in cell imagery. Model detection accuracy performed in the top 10% of all submissions

Stronger – Helping Opiate Addicts in Their Moments of Crisis (LA Hacks)　　04/2018
- Using Swift 4 and Google Cloud's Vision API, I implemented the speech-to-text recognition and cognitive behavioral therapy features of an iOS app that helps addicts in the moment of relapse

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 Swift Core Image and AVKit, I implemented video and image filtering for a multiplayer Apple TV app which allows for real-time AV manipulation using iPhone touch gestures and QR code recognition

■ leadership

HackSC – USC's Premier Hackathon (800+ attendees)　　　08/2016 – 05/2018
- *Director and Head of Logistics*

Spark SC – USC's Premier Student-led Entrepreneurship Initiative　　08/2015 – Present
- *Startup Career Fair Advisor (Aug. 2018 – Dec. 2018)*
- *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++, Python, Swift, Objective-C++, Java, HTML / CSS
Operating Systems: iOS, macOS, Windows
Tools: Xcode, Spyder, GitHub, Eclipse IDE, 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　　　12/2015
Every semester since Fall 2015

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