rachit kataria

💌 rachitka@usc.edu 🔇 rachitkataria.me 📞 (408) 218-1005 in rachitkataria 🕡 rachitkataria

work experience

Facebook - Software Engineering Intern 09/2018 - 11/2018

· Working on Origami Studio at Facebook's New York headquarters

05/2018 - 08/2018 Shape Security - Software Engineering Intern | Kleiner Perkins Fellow

· Worked on machine learning and AI applications for cybersecurity

Facebook - Software Engineering Intern

· 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

05/2017 - 08/2017

· 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

· 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)

 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

03/2017

 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)

• 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

08/2016 - 05/2018

· Director and Head of Logistics

08/2015 - Present

Spark SC - USC's Premier Student-led Entrepreneurship Initiative

- Startup Career Fair Advisor (Aug. 2017 Dec. 2017)
- 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

Kleiner Perkins Engineering Fellow

05/2018

Top 2% of 3,000 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 TroianHacks 2.0

Apple App Store Marketing Challenge

08/2016

06/2015

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

05/2015 HackSC - Quark

"Best iOS or OS X App" - Apple

"Best Use of Visual Media" - Disney

"Best First Time Hackathon Hack" - Hack SC

USC Trustee Scholar

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 $_{06/2015}$ Fellow

Research grant of \$2500 / 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