

# Rachit Kataria

rachitkataria.me • rachitka@usc.edu • (408) 218-1005

## EDUCATION

University of Southern California – Los Angeles, CA	(Expected) May 2019
B.S., Computer Science	
Lynbrook High School – San Jose, CA	June 2015
Valedictorian – GPA: Unweighted 4.0 SAT: 2300	
West Valley College – Saratoga, CA	Dec. 2014
Multivariable Calculus – GPA: 4.0	

## PROJECTS AND RESEARCH

Sonder – “Tap into the World Around You”	Oct. 2015
<ul style="list-style-type: none"><li>Implemented the front-end UI of a social media platform which crowdsources anonymous compliments from users creating a sphere of positivity using <u>Objective-C</u> for <u>iOS</u></li></ul>	
DARMS: Dynamic Aviation Risk Management System (Teamcore Research Group)	Sept. 2015 – Present
<ul style="list-style-type: none"><li>Applying input game theory algorithms in <u>NetLogo</u> and <u>Java</u> for a large-scale, robust 3D simulation of current TSA DARMS airport protection measures</li></ul>	
“The Maximization of CO <sub>2</sub> Intake through Phytochrome Genetic Overexpression, Chemical Enhancement, and Fungal Alteration on Red Mangroves”	Dec. 2012 – Mar. 2014
<ul style="list-style-type: none"><li>Developed a statistical framework and diagnostic toolset in <u>Java</u> to explore possible relationships between different test factors that affect the carbon-dioxide intake of Red Mangrove plants</li></ul>	

## ORGANIZATIONS

Spark SC - Premiere student-led entrepreneurship initiative at USC	2015
<ul style="list-style-type: none"><li>USC Hackers, Development, and TechLA Committee Board Member</li><li>Hack “Knights” Program Lead</li><li>TechLA Outreach Lead</li></ul>	
USC Association of Computing Machinery	2015
USC Trojan Scholar Society	2015
Lynbrook Neuroscience Club	2011 - 2015
<ul style="list-style-type: none"><li>President (2014-15)   Secretary (2013-14)</li></ul>	
Lynbrook STEM Research Program	2013 - 2015
<ul style="list-style-type: none"><li>Student Leader (2014-15)   Teacher Assistant (2013-14)</li></ul>	

## AWARDS AND ACHIEVEMENTS

USC Trustee Scholar (Full Tuition) Recipient	2015
<ul style="list-style-type: none"><li>Top 1% of all entering freshmen</li></ul>	
USC Viterbi Undergraduate Merit Research Fellow	2015
<ul style="list-style-type: none"><li>Top 5% of all Viterbi students demonstrating outstanding leadership potential and academic excellence</li></ul>	
USC W.V.T Rusch Undergraduate Engineering Honors Program Selectee	2015
National Merit Scholar	2015
AP Scholar with Distinction	2015
UC Berkeley Bio-Engineering High School Competition – First Place, Best Research	2014
Synopsys Silicon Valley Regional Science Fair – First place	2013, 2014
California State Science Fair – Honorable mention	2013
California State Summer School for Math and Science, UC Irvine – Leadership Award	2013

## SKILLS

**Programming Languages:** C/C++, Java, Python, HTML, CSS, NetLogo  
**Tools:** Github, Visual Studio