# Rachit Kataria

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## 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

## PRJOECTS AND RESEARCH

**Sonder – "Tap into the World Around You"**                         Oct. 2015
- Implemented the front end of a social media platform which crowdsources anonymous compliments for its users resulting in a social sphere of positivity
- Developed the user interface programmatically and with storyboards in Objective-C for iOS

**DARMS: Dynamic Aviation Risk Management System**                         Sept. 2015 – Present
- Implementing input game theory algorithms (designed by the TeamCore Research Group) in NetLogo and Java for a large-scale, robust 3D simulation of current TSA DARMS airport protection measures

**"The Maximization of $CO_2$ Intake through Phytochrome Genetic Overexpression,**                         Dec. 2012 – Mar. 2014
**Chemical Enhancement, and Fungal Alteration on Red Mangroves"**
- Developed a statistical framework and diagnostic toolset in Java to explore possible relationships between different test factors that affect the carbon-dioxide intake of Red Mangrove trees

## ORGANIZATIONS

**Spark SC - Premiere student-led entrepreneurship initiative at USC**                         2015
- USC Hackers, Dev, and TechLA Board Member | Hack "Knights" Program Lead | TechLA Outreach Lead

**USC Association of Computing Machinery**                         2015
**USC Trojan Scholar Society**                         2015
**Lynbrook Neuroscience Club**                         2011 - 2015
- President (2014-15) | Secretary (2013-14)

**Lynbrook STEM Research Program**                         2013 - 2015
- Student Leader (2014-15) | Teacher Assistant (2013-14)

## AWARDS AND ACHIEVEMENT

**USC Trustee Scholar (Full Tuition) Recipient**                         2015
- Top 1% of all entering freshmen

**USC Viterbi Undergraduate Merit Research Fellow**                         2015
- Top 5% of all Viterbi students demonstrating outstanding leadership potential and academic excellence

**USC W.V.T Rusch Undergraduate Engineering Honors Program Selectee**                         2015
**National Merit Scholar Finalist**                         2015
**AP Scholar with Distinction**                         2015
**Synopsys Silicon Valley Regional Science Fair – First place, Environmental Sciences division**                         2014
**Berkeley Bio-Engineering High School Competition – First Place, Best Research**                         2014
**California State Science Fair – Honorable mention, Environmental Sciences division**                         2013
**California State Summer School for Math and Science, UC Irvine – Leadership Award**                         2013

## SKILLS

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