

# Rachit Kataria

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## EDUCATION

University of Southern California

May 2019

BS., Computer Science

Lynbrook High School

June 2015

Valedictorian – GPA: Unweighted 4.0 ACT: 35

West Valley College

Dec. 2014

Multivariable Calculus – GPA: 4.0

## PROJECTS AND RESEARCH

*Sonder – “Tap into the World Around You”*

Oct. 2015

- Implemented the front end (pin confirmation and profile pages) 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

- Programmed a large-scale, robust 3D simulation of current DARMS TSA airport protection measures in NetLogo and Java, input game theory algorithms developed under Professor Milind Tambe

*“The Maximization of CO<sub>2</sub> 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

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)

COSMOS UC Irvine - Biomedical Sciences Cluster

2013

## SKILLS

**Programming Languages:** C++, Java, Python, HTML, CSS, NetLogo

**Tools:** Github, Visual Studio

## RELEVANT COURSEWORK

Java Programming

AP Computer Science

Intro. to C++ Programming

Intro. to Embedded Systems

Multivariable Calculus

AP Physics C: Mechanics

Interactive Programming in Python

STEM Research

## AWARDS AND ACHIEVEMENTS

USC Trustee Scholar (Full Tuition) Recipient

2015

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

California State Science Fair - Honorable mention, Environmental Sciences division

2013

COSMOS UC Irvine Biomedical Sciences Cluster - Leadership Award

2013