

Rachit Kataria

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EDUCATION

University of Southern California, Los Angeles, CA
BS in Computer Science

May '19

Lynbrook High School, San Jose, CA
GPA: Unweighted 4.0, Weighted 4.4

June '15

RESEARCH EXPERIENCE AND AWARDS

"DARMS : Dynamic Aviation Risk Management System"

Sept. '15 – Present

- Programming a large-scale, robust 3D simulation of current DARMS TSA airport protection through implementing prior Stackelberg game theory algorithms developed under Professor Milind Tambe

"The Maximization of CO2 Intake through Phytochrome Genetic Overexpression, Chemical Enhancement, and Fungal Alteration on Red Mangroves"

Dec. '12 – Mar. '14

- Award: First place in Environmental Sciences, Synopsys Silicon Valley Regional Science Fair
- Award: Honorable mention (5th Place), Environmental Sciences division, California State Science Fair

LEADERSHIP AND ACTIVITIES

Spark SC: USC Hackers and Development Committee Board Member

Sept. '15 – Present

- Advanced the premiere student-led entrepreneurship and innovation initiative at USC
- Inspired a culture of innovation, exposed students to their creative potential, and connected makers across diverse communities

Neuroscience Club: President (2014-15) | Secretary (2013-14)

Sept. '11 – June '15

- Consolidated research topics into effective presentations, organized collaborative activities, facilitated group meetings, and interviewed prospective candidates for officer positions

COSMOS (California State Summer School for Math and Science) UC Irvine - Biomedical Sciences Cluster

June '13 – July '13

- Gained in-depth exposure to the biomedical field through detailed lectures, extensive laboratory work, and informative interactions with physicians in fields including biostatistics, biomedical, and bioinformatics
- Leadership Award: Best leadership skills in the Cluster, reflected through ability, style, and success

STEM Research: Lynbrook STEM Program Leader (2014-15) | Teacher Assistant (2013-14)

Aug. '13 – June '15

- Mentored students on procedure write-up, statistical analysis and presentations skills for research proposals

EXTRACURRICULARS

Russian School of Mathematics: Paid Math Tutor

Jan. '14 – July '15

- Taught math, ranging from Algebra 1 to Pre-Calculus Honors, to individuals and small group of students
- Successfully mentored students to use creative problem solving strategies beyond conventional solutions

Asian Institute of Medical Sciences, India: Neurosurgery Internship

July '14

- Exposed to several neuro/spinal surgery techniques involving plating and suturing of the spine / cranium
- Analyzed live surgery in the OT and translated textbook knowledge to a real world practice

SKILLS

Programming Languages: C++, Java, Javascript, Python, HTML, CSS

Tools: Github, VirtualBox, Adobe Photoshop, Sony Vegas Pro 10

Platforms: Windows, OSX, Ubuntu

Languages: Proficient in French, Hindi

RELEVANT COURSEWORK

Java Programming

AP Computer Science

STEM Research

AP Physics C: Mechanics

Multivariable Calculus

Intro. to Embedded Systems

Intro. to C++ Programming

Interactive Programming in Python

HONORS

Trustee Scholar (Full Tuition) Recipient

USC Viterbi Undergraduate Merit Research Fellow

- Top 5% of all Viterbi students demonstrating outstanding leadership potential and academic excellence

W.V.T Rusch Undergraduate Engineering Honors Program Selectee

- Exceptional engineers provided enriching opportunities through dynamic academic and networking functions