

# SUMEDHA MEHTA

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## SKILLS

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LANGUAGES/MARKUP: Java –Python – HTML5 – CSS

OPERATING SYSTEMS: MacOSX – Windows

## AWARDS

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Siemens Competition Regional Finalist – NCWIT Computing Award – USABO National Semifinalist – National Merit Finalist – Exxon Mobile State Science and Engineering Fair (5<sup>th</sup> place)

## EXPERIENCE

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### *Center for Computational Epidemiology and Response Analysis – Research Intern*

- Created a model that analyzed the spread of a disease through a simulation. Used simulation to analyze the effects of communities within graphs on disease spread. Paper to be submitted for publication soon.
- 6.2015 - present

### *Rex Programming – Curriculum Designer and Strategist*

- Created a 40-day hands on curriculum to teach students app development through MIT's AI2 from scratch
- Curriculum included clear and crisp directional advice to instructor with no prior programming experience with AI

7.2015 – 8.2015

### *ProjectCSGirls – Outreach Team*

- Plan programming events and workshops in the area that target Middle School Girls in the area in order to close the gender gap in the tech industry.

8.2015 - present

### *University of North Texas – Analytical Chemistry Research Intern*

- Co-Authored 4 Publications in The Physics and Chemistry of Liquids: an International Journal.
- Determined and developed new coefficients for 14 organic compounds and ionic liquids using computational and statistical methods using SPSS Software
- Regional Finalist for Siemens Paper Competition

8.2013 – 3.2015

### *Upward Bound Math and Science – Student Mentor*

- Helped four low-income students learn about university research and directed their research project in analytical chemistry
- Lead group project and published one paper

6.2014-8.2014

## EDUCATION

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### CARNEGIE MELLON UNIVERSITY

- Computer Science B.S
  - 15-112: Fundamentals of Programming
  - 21-127: Concepts of Mathematics

2015 - 2019

### TEXAS ACADEMY OF MATH AND SCIENCE (UNT)

- HS Diploma, 70+ hours of college coursework, President's List, Honors

2013 - 2015