

# Sneha Rampalli

<https://sneharampalli.github.io/mywebsite>

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## EDUCATION

**UNIVERSITY OF PENNSYLVANIA | BSE IN COMPUTER SCIENCE | AUGUST 2016 - MAY 2020 | PHILADELPHIA, PA**

Cum. GPA: N/A | Major GPA: N/A

**CIS Coursework**

Programming in Java and OCaml • Discrete Math • Multivariable Calculus • Data Structures and Algorithms • Differential Equations and Linear Algebra • Introduction to Astrophysics • Engineering Ethics

**SOUTH BRUNSWICK HIGH SCHOOL**

Grad. June 2016 | South Brunswick, NJ | Cum. GPA: 4.59 | High Honor Roll student

## EXPERIENCE

### • NEW JERSEY GOVERNOR'S STEM SCHOLARS | RESEARCHER AND WEB DEVELOPER

September 2015 - May 2016 | NJ

- Attend four conferences during each season of the year to listen to keynote speakers, network with renowned STEM leaders, and work with other high school, undergraduate, graduate, and Ph.D. students selected around New Jersey on a STEM research project
- Project: A website and mobile application that allows victims of crimes to quickly sketch a criminal using an advanced neural network technologies to catch criminals, solve crimes, and keep communities safe.  
[www.github.com/sneharampalli/CrimeSketch](http://www.github.com/sneharampalli/CrimeSketch)

### • LEMELSON-MIT INVENTEAM | FINANCIAL MANAGER

September 2015 - May 2016 | NJ

- Team: 8 ambassadors from X-STEM, 2 advisors
- Corporate sponsors: S&P Capital IQ
- Received a \$4,500 grant to build the prototype and present it at the 2015 MIT Eureka Fest
- Project proposal: a device to alert drivers of oncoming bicyclists on the passenger side of the car to reduce injuries caused by collisions with the opening car door.
- Unique because attachable and/or detachable to any make/model of vehicle because it fits the rear windshield
- Utilizing the time of flight principle and the Pythagorean theorem, we used two rangefinders, placed side-by-side, to detect bicyclists in the bike lane within 30 feet of the device

### • X-STEM | CO-FOUNDER

August 2013 - May 2016

- Goal is to encourage students to pursue STEM-based careers
- Planned Washington D.C. trip to attend X-STEM symposium and USA Science & Engineering Festival and ISEC conference at Princeton University to listen to keynote speakers and network
- Bring in guest speakers, participate in team-building activities, and aid students in entering competitions

Invention Convention:

- Helped elementary school students brainstorm ideas to create a prototype to present their prototype and journal to the judges, and whoever wins was eligible to participate in the sixth grade science fair.

### • GOVERNOR'S SCHOOL OF ENGINEERING AND TECHNOLOGY | RESEARCHER

June 2015 - July 2015

Learned Android app development and modern physics

Final Paper for Smart Home Innovation

- Learned and worked with Raspberry Pi software and Python language
- Research of multiple sensors to find one that most precisely detects motion away from the shower head.
- Filed and received provisional patent for project.

## SKILLS | PROGRAMMING

Java • OCaml • HTML/CSS • JavaScript • Git •  $\text{\LaTeX}$  | Familiar: MySQL • Android • PHP • Python • Arduino

## LANGUAGES

English • Telugu • Spanish

## AWARDS

- 2016 NJ Affiliate Runner-Up of the NCWIT Award for Aspirations in Computing
- 2016 National Merit Commended Student
- 2016 South Brunswick Commission on Women's Scholarship Award - \$1,000
- 2015 - 2016 AP Scholar with Distinction

## EXTRACURRICULAR ACTIVITIES

- 2016 YouthHack Philadelphia | Currently in R & D phase for education technology start-up.
- 2016 Atma | Lead and Background Singer of South-Asian Female Acapella Group.
- 2012 - 2016 Varsity Tennis Player | Captain ('16) • 2nd Doubles Player
- 2012 - 2016 Tutor at South Brunswick Public Library | Executive Member of Teen Volunteer Association
- 2013 - 2014 Volunteer at Ten Thousand Villages (non-profit organization that sells fair-trade crafts)