

# Sagar Garg

<http://sagargarg.io>

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## EDUCATION

### PURDUE UNIVERSITY

FIRST YEAR ENGINEERING (CE)  
Expected 2020 | West Lafayette, IN

### BERGEN COUNTY ACADEMIES

ACADEMY FOR ENGINEERING AND  
DESIGN TECHNOLOGY (AEDT)  
Graduated 2016 | Hackensack, NJ

## COURSEWORK

### SECONDARY EDUCATION

AP Computer Science  
AP Physics C  
AP Calculus BC  
AP Chemistry  
Computer Integrated Manufacturing  
Advanced Electrical Engineering  
Introduction to Engineering Design I & II

### PROGRAMMING

Intro to Java  
Intermediate Java  
Intro to Python  
Codecademy HTML/CSS  
Codecademy JavaScript  
Android Application Development  
Web Application Development

## SKILLS

### CODING

Experienced:  
HTML • CSS • Android Development  
Intermediate:  
Java • JavaScript • C • Python • Unity  
Basic:  
Chrome Extensions • PHP • IOS •  $\LaTeX$

### ENGINEERING

Arduino  
Laser Cutting  
3D Printing  
Waterjet Cutting  
Soldering  
Computer Numerical Control Milling

### SOFTWARE

Autodesk Inventor/AutoCAD  
Microsoft Office  
Matlab  
Windows / Mac OS  
Adobe Photoshop

## PROJECTS

### UNIT CONVERTER | PUBLISHED ANDROID APP

Nov 2014 – Feb 2015

A simple, smart, and easy way to convert units with a clean user interface. Features fast, real time conversion in a clean interface. Includes nine different units.

- Published on the Google Play Store with 25,000+ downloads to date.

### BARBOT | HACKATHON PROJECT AT PENNAPPS WINTER 2015

Jan 2015

BarBot utilizes a combination of Android and Arduino to create a robot that stores your temptations and keeps you from taking too much. Each person gets a limited number of drinks, and once that limit is reached, BarBot does not let you take anymore. BarBot can automatically lift its cover using sonar data.

## EXPERIENCE

### EPICS GAQT | ARDUINO WEB INTERFACE DESIGN LEAD

August 2016 – Present | West Lafayette, IN

Global Air Quality Trekkers is an global engineering team that is working to identify and solve air quality challenges, specifically working to migrate indoor air pollution in kitchens of Western Kenya.

### MYREGISTRY LLC | WEB DEVELOPMENT INTERNSHIP

May 2015 – July 2016 | Fort Lee, NJ

Worked closely with the development team to create responsive visually appealing sites that feature user-friendly design using HTML, CSS, JS, and JQuery.

### HACKBCA II | LOGISTICS

Fall 2014 – Mar 2015 | Hackensack, NJ

- Aided in organization for the second iteration of HackBCA, one of the first hackathons open to high school students
- Day-of logistics and photography
- Directed construction on trophies given to hackathon winners

### HACKENSACK UNIVERSITY MEDICAL CENTER | VOLUNTEER

June 2014 – Aug 2014 | Westwood, NJ | 25 Hours Volunteered

Learned about the business of a hospital, and was able to talk to several doctors regarding their experiences.

### LIBERTY SCIENCE CENTER | VOLUNTEER

May 2013 – Aug 2014 | Jersey City, NJ | 180 Hours Volunteered

Had a variety of tasks including helping kids and adults in exhibits, and being a Pocket Scientist, learning about STEM at the same time.

## EXTRACURRICULAR ACTIVITIES

### SOUTH ASIAN CLUB (SAC) | WEBMASTER

Sept 2012 – June 2016 | Hackensack, NJ

Developed and currently maintain the website for South Asian club. The website's main function is to promote the club and give updates about future events.

### ALPHA LEO'S CLUB | CO-FOUNDER AND VICE-PRESIDENT

Sept 2014 – June 2016 | Hackensack, NJ

Student club to promotes service activities among the youth of the community.