

# Shreyas Gatuku

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## Education

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### Carnegie Mellon University, Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering  
Additional Major in Robotics  
GPA: 3.65

2015 – 2019

### Loudoun County Academy of Science, Sterling, VA

Gifted Program for Math, Science, and Research

2011- 2015

## Experience

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### Sprint, Reston VA

Summer 2016

*Web Developer Intern*

- Worked on the maintenance and performance of the corporate website
- Analyzed data and debugged code with software engineers
- Used data analytic tools such as Elk, Splunk, and Keynote

### Hwa Chong Institute International Research Collaboration, Singapore

2013-2014

*Research Intern*

- Studied the Improvement of the Power Efficiency of the Savonius Vertical Axis Wind Turbine with Parabolic Blade Geometries
- 2<sup>nd</sup> place in Hwa Chong Research Fair, 1<sup>st</sup> place in Academy of Science Research Fair

## Projects

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### Flow

Summer 2016

*Personal Project*

- Built a PHP web application to generate and visualize dance routes
- Used across the nation by dance teams from all dance circuits

### Super Mario Bros. Map Developer

2016

*Term Project*

- Programmed a software tool that converts hand-drawn game maps to virtual playable game levels
- Uses Python and Python Libraries (openCV, Tkinter)

### ConnectMe

2016

*Hackathon Project*

- Worked with a team to construct a web application that connects students in shared classes for a collaborative workspace

### Lego STEM Academy

Summer 2013, 2014

*Co-Founder and Instructor for Robotics and Aeronautical Engineering*

- Started local summer camp to inspire STEM in middle school and elementary school students through hands on projects

## Activities

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### Carnegie Mellon Solar Racing, Pittsburgh, PA

2015-2016

- Worked on electrical and mechanical systems of a solar powered boat for boat racing competitions

### FIRST Robotics, Leesburg, VA

2011-2015

*Member and Competitor (Lead Designer, Electrical Engineer, Mechanical Engineer, Driver)*

- FRC: 1<sup>st</sup> place Rookie Inspire Award Regionals, Competed in World's Championship St. Louis
- FTC: Competed in State Competition 4 years and Super-Regional Competition 1 year

## Skills

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CAD Design (AutoDesk, Creo, TinkerCad), python, Java, HTML-CSS-JavaScript, PHP, Android, Arduino