



# SERENA ZENG

Computer science student at Rutgers University  
interested in software development and  
emerging technologies

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## EDUCATION BACKGROUND

### Rutgers University Honors Program

*Bachelor of Science in Computer Science Major, Business Administration Minor  
Class of 2024*

4.0 GPA

Coursework (2020-2021): Data Structures, Computer Architecture, Discrete  
Mathematics, Linear Algebra

### Middlesex County Academy for Science, Mathematics and Engineering Technologies

*Electrical and Computer Engineering Track | Class of 2020  
4.40/4.0 GPA*

- Entrepreneurship Club Software Director
- Science Olympiad Captain and 6x medalist
- President of Bioengineering Club

## EXPERIENCE

### Web Development and Program Management Intern

Junior Achievement of New Jersey  
*July 2020 - Present*

- Developed websites for organization's various programs
- Technologies: ReactJS, JavaScript, Django, Python, REST APIs
- Organized statewide STEM programs for middle to high school students

### Project Lead & Software Architect

HackRU Research and Development  
*July 2020 - Present*

- Develop and maintain web application called MentorQ which connects hackathon attendees to mentors at Rutgers' biannual HackRU events
- Created an administration web portal, user feedback feature, UI redesign, REST API integration
- Technologies used: ReactJS, JavaScript, Redux, Material-UI, REST APIs, Django REST Framework

### STEM Instructor and Curriculum Development

Built By Me STEM Learning  
*June 2020 - Present*

- Developed curriculum for online learning management system on topics including Game Design with Pygames and Scratch
- Taught regularly scheduled online coding classes

## PROJECTS

### MyBus - 2019 Congressional App Challenge Winner

*June 2020 - Present*

Developed MyBus, a product to enable wireless, web-based tracking of school buses, improving communication through the school bus system consisting of a trackerBox, mobile application and administration web portal. See following [video presentation](#) and [article](#) by NJ Representative Frank Pallone.

Technologies used: HTML/CSS, JavaScript, Firebase, Bootstrap, Arduino Uno

### MTPSHacks Website

Developed a website displaying 50+ project submissions for Marlboro Township public school district's middle school hackathon. This site is currently being distributed to parents, students, and organizations sponsoring the hackathon. View live site [here](#).

Technologies used: ReactJS, JavaScript, Material-UI

### Digital Portfolio

Developed a personal website. View live site [here](#).

Technologies used: ReactJS, JavaScript, Material-UI

## CERTIFICATES

### Machine Learning

*Stanford University through Coursera  
August 2020*

[View Certificate](#)

### Programming Foundations with JavaScript, HTML and CSS

*Duke University through Coursera  
August 2017*

[View Certificate](#)

### CS50: Introduction to Computer Science

*Harvard University through edX  
January 2020*

[View Certificate](#)

## SKILLS

### Languages

- Java
- C
- JavaScript
- Python
- HTML/CSS

### Tools

- Git & Github
- Postman
- Command Line
- Eclipse
- Visual Studio Code

### Libraries & Frameworks

- ReactJS
- Bootstrap
- Material-UI

### Others

- Public Speaking
- Project Management
- Teaching