

# MESHANE PEIRIS

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## Education and Relevant Coursework

### Stuyvesant High School – Specialized High School

Sept 18' – June 22'

- Advanced Placement Courses: AP Calculus BC, AP Macroeconomics, AP Microeconomics
- Introduction to Computer Science (Racket and Netlogo)

### Stony Brook University

#### • Bachelor of Applied Mathematics and Statistics

Aug 22' – June 26'

- Calculus III With Applications, Applied Calculus IV: Differential Equations, Finite Mathematical Structures, Introduction to Linear Algebra

#### • Bachelor of Computer Science

Aug 22' – June 26'

- Computer Science Principles, Introduction to Object Oriented Programming, Data Structures and Algorithms, Foundations of Computer Science

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## Projects

### Personal Website (<https://meshane-p.github.io/personal-website/index.html>)

Oct 23'

- Serves as an online platform where I exhibit my expertise in computer science and applied mathematics.
- I have incorporated CSS for a visually appealing and user-friendly design, along with JavaScript for subtle animations, enhancing the user experience.
- While the website is a work in progress, it provides insights into my strong passion for technology, problem-solving skills, and commitment to community service, with room for future project descriptions and enhancements.

### Python RPG Game

Oct 23'

- My game, implemented using Pygame, features a top-down view in a 2D world with tiles, objects, and entities.
- I have incorporated CSS for a visually appealing and user-friendly design, along with JavaScript for subtle animations, enhancing the user experience.

### Automated Time Sheet for Royal Test Prep

Oct 23'

- Allows users to input employee names, clock in, and clock out to track their work hours individually.

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## Skills

**Coding Languages:** Python, Java, Racket, NetLogo, HTML, CSS, JavaScript

**Mathematical expertise:** Statistical Analysis, Data Visualization, Deductive and inductive reasoning, Complex Problem Solving, Critical Thinking, Information Ordering

**Other:** Communication and cooperation skills, Leadership skills, Teaching skills, Project Management skills

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## Professional Experience / Accomplishments

### Computer Science and Mathematics Teacher – Royal Test Prep

July 18' – Present

- Elementary school, middle school, and high school tutoring.
- Leading groups of students to mathematic tournaments such as MathCON.
- Designing prep work and in class assignments to enhance student mathematics and computer science proficiency.

### Modeling the Future Challenge Semifinalist

July 20'

- Collaborated with a mentor actuary to solve real life finance and insurance problems.
- Led a group of students to modeling applicable solutions to wildfires in the United States.

### NYC Parks – Litter Ambassador

Aug 19' – July 21'

- Demonstrated acts of leadership and cleanliness in polluted public parks in Queens, New York.
- Endured laborious tasks outdoors during the peak times of COVID-19.
- Taught residents of New York how to properly dispose of waste without polluting the environment.

### Badminton Finalist – Singles 3 | Doubles 2 | Co-Captain

Sept 19' – June 22'

- Competed in the highest high school league for badminton and played as a top 3 starter of the team.
  - Led the team to its first finals in years as a co-captain and instructed beginners to the sport at school.
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