

OBJECTIVE:

Gloucester County, NJ

I am a high school student majoring in Physics & Computer science at Rowan College of South Jersey. My ultimate goal is to learn to problem solve in many different contexts and capacities. I love challenges and connecting with people. Three of my hobbies are math, skateboarding, and biking in New York City. My [website](#) is linked above for additional info.

EDUCATION:

2021-2023

ROWAN COLLEGE OF SOUTH JERSEY - GLOUCESTER (HSOP STUDENT)

Gloucester County, NJ

GPA: 3.94 RCSJ President's List PTK Honor Society Member

- Majors: Physics and Computer Science
- Relevant Courses: Calculus I – III, Statistics, Data Structures & Algorithms, Physics II
- Awards: 17th place NJUMC math competition, Silver Presidential Service Award for Volunteering, MIT Undergraduate Research Technology Conference Publication
- Involvements: RCSJ Math Club, RCSJ Black Student Union, RCSJ Literary Magazine

EXPERIENCE:

2022-present

NJIT CENTER FOR APPLIED MATH & STATISTICS

Newark, NJ

Research Assistant at New Jersey Institute of Technology

- Assist Chair of NJIT Math Department on ocean acoustics research using Computer Science
- Engineer features & visualize data in MATLAB to characterize the seabed by classifying sediments
- Edit decision trees and educate myself on machine learning & non-linear regression techniques
- Read relevant papers on acoustic field data and ocean characterization weekly

Summer 2022

NEW JERSEY GOVERNOR'S SCHOOL OF ENGINEERING & TECHNOLOGY

New Brunswick, NJ

Student Researcher at Rutgers University - New Brunswick

- Completed a four-week research project proving the efficiency of morphing airfoils
- Employed MATLAB to calculate fuel efficiency and lift/drag values for aircraft
- Worked in a team to simulate airfoils using COMSOL and ANSYS and build a prototype
- Presented research and demonstrated proof-of-concept airfoil prototype at Rutgers, New Brunswick symposium and MIT Undergraduate Research Technology Conference

2020-2022

KUMON MATH AND READING CENTER OF MAYWOOD, NJ

Assistant Instructor & Math Tutor

- Taught math and language arts from kindergarten to grade 10 level
- Set up online Zooms for students unable to come to the center in-person
- Helped over 50 kids achieve their potential and improve in school

2020-present

HACKENSACK UNIVERSITY MEDICAL CENTER FITNESS AND WELLNESS

Maywood, NJ

Swim Instructor & Lifeguard

- Completed 2, 50-hour Red Cross courses in lifeguarding and swim-instructing
- Teach 3 to 8 year olds to swim and follow best practices in aquatic environments
- Maximized deck safety by rearranging signage and prioritizing communication

SKILLS:

- **Languages:** C++, Python, JavaScript, Java, Latex, MATLAB, HTML & CSS
- **Technologies:** Adobe Illustrator, Excel, Word, Blender, Onshape, Overleaf
- **Personal:** Communication, Empathy, Teamwork, Conflict Resolution, Problem-Solving