

## NAME

Tel:| Email Website

*My interests are interdisciplinary, involving Sociology, Computer Science, Mathematics, and Data Science. I love researching exciting ways to apply STEM to solve societal challenges.*

## ACADEMIC PROFILE

GPA: 4.5346 (Weighted) | SAT: 1560 | PSAT: 1500

AP Exam Scores: Computer Science A(5), Calculus AB(5), Calculus BC(5), Physics 1(4), Chemistry(5), Biology(5), Language & Composition(5)

Planned AP Exams Senior Year: Physics C E&M and Mechanics, Psychology, Statistics, Environmental Science

## AWARDS

- Johns Hopkins Study of Exceptional Talent Designation
- Silver Medal in Math League International Summer Challenge Speed Round(Top 15% among the world)
- Bronze Medal in Math League International Summer Challenge Individual Round(Top 30% among the world)
- Robotics Excellence Award at Camden County Technical High School
- International Finalist for VEX Robotics Reverse Engineering Challenge National Merit Semifinalist
- Naval Horizons Essay Contest Award Winner
- French Concours - Merit of Excellence
- AP Scholar with Distinction
- Inducted into National Honor Society
- High Honors 9th, 10th, 11th
- Math, Computer Science and Science Honors Society membership

## KEY COURSEWORK

- Differential Equations
- Multivariable Calculus and Linear Algebra
- Mobile App Development
- VR & Game Design
- Data Structures
- AP Computer Science A

- AP Psychology
- AP Physics C
- AP Chemistry
- AP Biology

## **TECHNOLOGY**

Founder of Tech Time, 3-4 hours per week (Grades 11-Present)

- Launched a blog focusing on interesting and rising technology that is positively impacting the world with a view on sustainable development
- Examples include concepts such as Smart Farming, Computational Biology, and different ways AI has been used
- Write about interesting inventions in technology over the past few years that have benefited sustainability(AUDREY, ESTHER, "Power Tables")
- Over 5,500 views and subscribers

Internship with Astute SciTech Group Limited - Astutes.io, 15 hours per week (Grade 11)

- Worked for a Data Science and Cybersecurity firm based in London, analyzing key data/graph sets
- Used NLP(Natural Language Processing) in Python to analyze language for emotional sentiment
- Wrote programs in sentiment analysis to analyze customer reviews and determine positive or negative feedback

## **Robotics Team, Captain & Head-Programmer, 15-20 hrs per week (Grades 9-Present)**

- Qualified for National Competition, States Competition X3
- International Finalist for VEX Reverse Engineering Challenge, where our team took apart a speaker and made a detailed presentation on each part and its function
- Head programmer for VEX robotics competition, using technologies such as PID and Computer Vision in C++ to code driver control, autonomous, and skills periods
- Hosted Plunging Into Python, where my team tutored kids on the basics of VEX Programming
- Created a scouting mobile app to post data about every team, helped teams within NJ form alliances with each other mid-competition

## **Computer Science Club, Member, 9-12**

- Participant in multiple SB hackathons, using topics such as web scraping, Java, Python, C++, HTML, and CSS to create unique, individualized projects

- Created a stock market simulator app using API allowing users to buy and sell stocks to maximize profits
- Participated in University of Pennsylvania's PClassic Hackathon representing school, where I solved interesting coding problems

### **CS Academy, Member, 11-12**

- Member of selective cohort within South Brunswick CS department
- Visit technology companies in the surrounding area, exploring their work and its different applications within society
- Chat with prominent members of companies such as Bloomberg, Lockheed Martin, Bank of America, and Latent AI to learn insights about new technological developments
- Work on unique projects(Ecology Simulator, VR Fruit Ninja, Atari Mobile App, Cookie Clicker, AI chatbot, etc)

### **Mathletes Club, Member, 9-12**

- Participate in monthly contests through MathLeague New Jersey
- School consistently ranked among the top schools in the county
- Achieved a perfect score multiple times(6/6), contributing to team score

## **TEACHING**

*Teaching kids is a real passion for me, whether it's building a robot, coding an app or improving interpersonal skills. Seeing them excited brings so much joy and passion into my life.*

### **International Rescue Committee - Refugee Youth Summer Academy program(Summer 2023)**

- Worked as a peer mentor for IRC-RYSA program held at Kean University, NJ
- Worked with approximately 130 refugees from Syria, Afghanistan, Ukraine, etc. ages 5-19 to promote English Language Learning, School Readiness, and Psychosocial support in a fun, creative and welcoming environment

### **Code Sensei Teacher & Camp Counselor, Code Ninjas Kendall Park(Paid) (Jan 2021 - Jan 2023)**

- Teach Java, Scratch, and Unity to 150+ ambitious young students as a part of a core curriculum
- Work with children 1 on 1 to teach important computer science concepts(Loops, Functions, If/Else, etc)

- Head Sensei for summer camps teaching Scratch, Java, and introductory computer science concepts

#### **Tutor/Mentor for Tutorscope Company (May 2020 - Present)**

- Teach Math, English, Computer Science, Science, and History to K-12 students(Over 100 hours completed)

#### **Homework Help Center Tutor, South Brunswick High School (September 2022 - Present)**

- Tutor fellow high school students in Math, Science, and Computer Science
  - a) Courses such as AP Calc AB, AP Physics 1, and AP Computer Science A

#### **Volunteer Teacher (9-11) & Change Champion (11-12) for Team Everest, NGO in India**

- Team Everest is one of India's largest NGOs with 25,000 volunteers working to advance education for the underserved
- Taught English to underprivileged college students; highlighted the differences between Indian and American culture
- Fundraised money for underprivileged students in India to be able to go to school

#### **Peer Leadership Program (Grade 12)**

- Introduced Class of 2027 to the high school by encouraging discussion, and planning activities within small groups Work as a temporary gym teacher, keeping students interested with athletic activities
- Help freshman student-athletes get accustomed to the rigor of high school athletics

### **SPORTS & COACHING**

#### **Varsity Tennis, Grades 9-12, 15 hours/week**

- GMC Winner as JV Captain in 10th Grade
- Multiple USTA Tournament Wins(Boys 10-Under, 12-Under, 14-Under)

#### **Tennis Coach, Grades 9-Present, 1-3 hours per week**

- Teach tennis to kids aged 9 to 13, preparing athletes for youth tournaments

#### **Asian Cultural Club, Grades 11-Present, 3-6 hours per week**

- Tried out against 100+ people to make school's Bollywood team
- Participate in weekly practices, learning dances and practicing with team
- Part of school's annual "Temptasian" show, where we embrace Indian culture and perform for a 1000+ people crowd

## **COMMUNITY SERVICE & FOOD INSECURITY**

### **Volunteer, Durga Mandir (Hindu Temple in New Jersey)(Grades 9-12)**

- Pantry organization; weekend dinner setup; and cleaning the premises
- Prepared food, planned out future meals, delivered meals to priests

### **Volunteer, Trenton Soup Kitchen (June to September)(Grades 9-10)**

- Cleaned and organized pantry, worked with other members of the kitchen to distribute meals
- Chopped vegetables to help chefs with food preparation
- Distributed towels, toothbrushes, and toothpaste to citizens of Trenton

### **Volunteer, South Brunswick Senior Citizen Center(Grade 10)**

- Helped run annual Penny Social by reading raffle tickets and handing out gifts
- Fostered conversation with seniors by explaining different items being given out

### **Volunteer, Suicide Awareness Walk(Grade 9)**

- Helped welcome patrons to school's annual suicide walk
- Handed out flyers to raise awareness about suicide and ways to help those struggling with mental health issues