

Education:

Cornell University

Expected May 2021

BS Biological Engineering & Computer Science

GPA: 3.05

Syosset High School

Grad May 2017

AP Scholar with Distinction

Skills:

Computer Languages:

- MATLAB (Proficient)
- Java (Proficient)
- C (Familiar)
- Python (Familiar)
- HTML/CSS (Familiar)

Lab Techniques:

- Gel Electrophoresis • Plasmid Miniprep, • Cell Culture & Staining
- PCR • Bacterial & Yeast transformation

Design:

- Adobe Illustrator • Video-editing

Interests:

- Orchestral Conducting • Piano
- Violin

Computer Science Coursework:

- Object-Oriented Programming & Data Structures
- Computer System Organization & Programming
- Data Structures & Functional Programming
- Intro to Computing using MATLAB
- Discrete Structures

Bioengineering Coursework:

- Principles of Bioengineering
- Molecular & Cellular Bioengineering
- Dynamic Models in Biology
- Single & Multivariable Calculus
- Differential Equations
- Linear Algebra
- Thermodynamics
- Cell and Developmental Biology
- General Chemistry I
- Statics & Mechanics of Solids

Experience:

Rutgers Center for Computational and Integrative Biology

May'18 – Aug'18: Research Experienced Undergraduate

- Optimized mathematical model for starling birds by changing flock shape in MATLAB
- Developed ImageJ plugins to determine velocity of information transfer within rising flock in Java
- Received Best Poster Presentation Award and presented at the Mathematical Biology Institute Capstone Conference

BigRed//Hacks: Legend of Code

Sep'17: Co-Front End Developer

- Co-designed prototype for a HTML/CSS multiplayer online game to teach Java
- Created pause menu and page traversal functionality
- Awarded Best Hack for Social Good by JPMorgan Chase

Stony Brook Garcia Center for Polymers

Jun'17 – Aug'17: Research Experienced Undergraduate

- Assessed motility of cellular and extracellular matrices of normal and cancerous ductal breast cells
- Personally coordinated and developed project between two separate labs while introducing three high school students to conduct research

Jun'15 – Aug'15: Co-Researcher

- Fabricated and optimized molecularly-imprinted biosensors for detection of cancer biomarker and proteins in solution
- Modeled plot of biosensor sensibility using Python to determine line of best fit
- Presented and received Bronze Medal at International Sustainable World Project Olympiad
- Presented and received Merit Place in Computing at WAC Lighting Foundation Invitational Science Fair

Club & Organization Affiliations:

Engineering Career Fair Team (ECaFT)

May'18 – Present: Co-Logistics Director

- Co-lead team of seven undergraduates in planning professional development Cornell's annual Spring Engineering Career Fair and Fall and Spring Project Showcases
- Coordinate as sole project manager for the spring career fair with 150 companies by assigning tasks such as ordering catering for events, booking rooms through filling registration forms, and table setup

Cornell Piano Society

Jan'18 – Present: Co-Vice President & Teacher

- Co-lead biweekly meetings/discussions on piano topics such as improvisation, sight reading, and piano sound
- Teach weekly lessons to undergraduate students interested in learning piano