

Education

Cornell University, College of Engineering | Ithaca, NY

B.S. in Information Science, Systems, and Technology (Expected May 2025)

Cumulative GPA: 4.02/4.30; Cornell Engineering Joan and Irwin Jacobs Scholar

Relevant Courses: Object-Oriented Programming and Data Structures, Trends in Web Development, Ethics in Artificial Intelligence, Climate Change and You, The Engineer

Great Neck South High School | Great Neck, NY

Aug 2017 – Jun 2021

GPA (*Unweighted*): 96.7/100

Experience

Summer Trainee

Jun 2022 – Aug 2022

Icahn School of Medicine at Mount Sinai | Remote

- Processed and added the Tabula Sapiens scRNA-seq data to the Tumor Gene Target Screener Appyter and Gene and Protein Expression across Human Cells and Tissues Appyter. Created a new Enrichr library from the Tabula Sapiens dataset.

iOS Developer

Dec 2021 – Present

My Ace | Ithaca, NY

- Designing and developing an iOS app using SwiftUI to help tennis clubs, coaches, and parents better manage and communicate with their students.

Operations Member

Oct 2021 – Present

Cornell Electric Vehicles (CEV) Project Team | Ithaca, NY

- Created videos to promote the team and raise \$7,500+
- Worked on autonomous vehicle simulation using Gazebo

iOS Developer

Dec 2020 – Present

Quarantine Tutors | Remote

- Designed and developed the frontend (SwiftUI) and backend (Firebase) of an iOS app to connect students and tutors across 4500 tutoring sessions

Leader of CAD & Digital/Social Media

Sep 2017 – Jun 2021

FIRST Robotics Competition (FRC) Team 2638 | Great Neck, NY

- Led training of new members through presentations and hands-on workshops. Active participant in team recruitment and outreach; grew membership by 70+
 - Created course to teach 50+ students CAD in Autodesk Inventor and configured a remote WebDAV server to access CAD files anywhere in the world
 - Created two award-winning Chairman's Award videos and two robot reveal videos; redesigned team website
 - Started team Apps Committee (Scouting App and Parts & Tools App)
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Student Researcher

Sep 2018 – Jun 2021

Science Research Program, Great Neck South High School | Great Neck, NY

- Designed, conducted, and presented: *Creation of a Machine Learning App to Facilitate Pancreatic Cancer Prediction*
- Cleaned data using Python, Excel, & SPSS, trained ML models using TensorFlow & CreateML, and embedded the model in an iOS app using SwiftUI & CoreML
- Presented research paper, slides, and poster at science fairs; awarded 1st place at NYSSEF; 2nd place at LISEF, JSHS, & NSPC; ISEF Finalist

Student Worker

Summer 2018, 19, 21, & 22 (part-time)

Great Neck Public Schools TV Studio (GNPS/TV) | Great Neck, NY

- Selected by the Director of Educational Television and Broadcast Media to edit 5 district videos and complete various special projects
- Researched/set up 4 new high-end editing computers and digital signage TVs/software for in-school display, transitioned studio to new editing software, organized over 50 years of video footage, made purchasing decisions

Other Awards & Honors

- FIRST Robotics Competition (FRC) Dean's List Award Finalist (2020)
- Great Neck Public Schools Awards:
 - John Zannos Memorial Research Award (Excellence in Science Research, 2021)
 - Murray Singer Science Award (Excellence in 4-years of Science, 2021)
 - Board of Ed. Commendation: High School Quality of Life Award (2019 – 2021)
 - Iron Bimba Award (Excellence in Robotics, 2021)
 - Philip Bruell Highest Overall Achievement Award in Media Production (2021)

Volunteer Service

- Cornell Engineering Peer Advisor: Teaching a class to introduce freshmen to Cornell Engineering and being a resource to give them advice and help them succeed.
- Executive Board Member/Volunteer of SavetheFrontline, an organization that provides PPE and masks to local underserved communities. Redesigned and managed the organization website, <https://www.savethefrontline.org>
- Volunteer of Students Putting an End to Cancer. Planned fundraisers for St. Baldrick's Foundation. Helped pack 75+ get-well cards & gifts for local pediatric cancer patients
- Helped organize and participated in a robotics team outreach "Family Fun Day" at Sunrise Day Camp Long Island, a free summer day camp for children with cancer

Technical & Creative Skills

Technical: Java, Python, Swift, SwiftUI, JavaScript/TypeScript, React, Xcode, App Store distribution, Firebase, SQL, GitHub, TensorFlow, Keras, Scikit-Learn, CreateML, CoreML, Artificial Neural Networks, data pre-processing (i.e., resampling unbalanced data), Pandas, Numpy, Jupyter, SPSS, Autodesk Inventor, NAS server & networking

Creative: UI/UX design, DSLR filming, Final Cut Pro 7/X, Premiere Pro, MS Office Suite, Apple iWork Suite
