

## Education

### **Cornell University, College of Engineering | Ithaca, NY**

B.S. in Computer Science or Information Science (Expected May 2025)

Cumulative GPA: 4.19/4.30; Cornell Engineering Joan and Irwin Jacobs Scholar

Relevant Courses: Object-Oriented Programming and Data Structures, Trends in Web Development, Ethics in Artificial Intelligence, Engineering General Chemistry

### **Great Neck South High School | Great Neck, NY**

Aug 2017 – Jun 2021

GPA (*Unweighted*): 96.7/100

## Experience

### **Software and Operations Member**

Oct 2021 – Present

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

- Currently working on autonomous vehicle simulation using Gazebo
- Creating video projects to promote the team

### **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)

### **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
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### **Student Worker**

Summer 2018, 2019, & 2021

#### **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

### **Other Projects**

#### **CUDormReviews | Ithaca, NY**

Nov – Dec 2021

- Developed a web app using React and TypeScript for Cornell students to view information about on-campus housing and write reviews based on their experiences
- Integrated the Firebase backend with the frontend

#### **Eye Fatigue Detection Desktop App | Remote**

Sep 2020 – Mar 2021

- Developed a desktop app for the Samsung Solve for Tomorrow competition using Python, OpenCV, and TensorFlow to detect eye fatigue while using a computer

### **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 Bima Award (Excellence in Robotics, 2021)
  - Philip Bruell Highest Overall Achievement Award in Media Production (2021)

### **Volunteer Service**

- 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
- Participated in robotics team outreach meal packaging event for local food banks
- Created six iPad technical & app video tutorials for high school students

### **Technical & Creative Skills**

Technical: Java, Python, Swift, JavaScript/TypeScript, React, SwiftUI, Xcode, App Store distribution, Firebase, SQL, GitHub, TensorFlow, Keras, Scikit-Learn, CreateML, CoreML, Artificial Neural Networks, data pre-processing (i.e., resampling unbalanced data), 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

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