



EDUCATION

- Princeton University 2023 - 2027
G.P.A. of 3.59
B.S.E. in Mechanical & Aerospace Engineering; Intended Minors in Statistics & Machine Learning, Robotics
• Relevant coursework: PHY105, PHY106, COS126, MAE305, MAE221, MAE223
- Ridgewood High School (RHS) 2019 - 2023
G.P.A. of 4.502 (weighted), Valedictorian, AP Scholar with Honor, 2021 National Merit Letter of Commendation Recipient

PROFESSIONAL EXPERIENCE

- La Fondazione Giorgio Cini, ARCHiVe 2024 - Present
Machine learning and full-stack desktop app development intern
• Independently developed the frontend and backend for a QT-based desktop app utilizing deep-learning techniques (SegmentAnything), improving workplace efficiency by ~600%
• Investigated and tested deep-learning-based 3D modeling techniques (Gaussian splatting)
- Co-Founder & Full Stack Developer, UBound 2024 - Present
Founder and full stack developer for a web application aiming to facilitate connections between high school students and top university graduates
• Architecting a web application using NextUI React framework, Tailwind CSS, MongoDB, and Google Firebase
- de la Garza Architecture LLC 2023 - 2024
Architecture intern under Javier de la Garza, firm owner
• Studied, researched, & presented on architectural documents provided from Rockwell Group & Architecture Research Office
- Bergen Community College, Department of Chemistry 2022 - 2023
Research intern under Dr. Ara N. Kahyaoglu, Physical Sciences Department Chair
Projects: *Antimicrobial and Synergistic Properties of Nanoparticles, Building Lewis Dot Structures of Binary Compounds/Ions, Photovoltaics Research*
• Successfully conducted research as part of a diverse team of chemistry undergraduate researchers. Involved frequent problem solving, daily interactions with faculty advisor, and communication

AWARDS

- NJ STEAM Tank™ Challenge 2021 - 2022
Project lead for ICE Pack team
• Winner of the 2022 NJ STEAM Tank™ Challenge and \$2500 in project funding
• Winner of the 2022 Societal, Social, and Emotional Impact Award; Justice, Equity, Diversity & Inclusion Award; Subject Matter Expert Award; Creativity & Exemplar Integration of the Arts Award
• Finalist in the 2021 NJ STEAM Tank™ Challenge and winner of the 2021 Innovation Award

EXTRACURRICULARS

- Princeton Society of Asian Scientists and Engineers 2024 - Present
Co-treasurer
• Acquired ~\$10,000 in funding from engineering departments and student government to help undergraduates attend national SASE conference in Boston
- Princeton Racing Electric Club 2024 - Present
MK2BC Engineer
• Engineer working on PRE's MKB2C car, preparing it to clear all competition guidelines, design custom PCB electronics
- Natural Language Processing Reading Group 2024 - Present
Study various papers from industry & academia related to natural language processing
- Advanced General Intelligence Reading Group 2024 - Present
Study various papers from industry & academia related to world models, agents, benchmarking, etc. under guidance from Dr. Sebastian Seung
- Patent Applicant Present
Pending patent applicant for an induced hypothermia cooling blanket based on gaseous CO₂ circulation technology

SKILLS

- Programming Languages: Python (Qt, PyTorch), Java, JavaScript, C++, HTML/CSS
- Software: Google Product Suite, Excel, Miro, Blender, AutoCAD, KiCad, Mathematica, Arduino, Figma, Inkscape, Krita, Filmora X, NX, Altium
- Certifications: CPR, First Aid, EDX Machine Learning, Coursera Python (Data structures, databases)