

EDUCATION

Johns Hopkins University <i>B.S. Chemical & Biomolecular Engineering</i>	Baltimore, Maryland Expected May 2026
<ul style="list-style-type: none">• GPA: 3.93 Relevant coursework: Cell Biology, Biochemistry, Organic Chemistry 1, Protein Engineering and Biochemistry Lab, Engineering Thermodynamics, Statistical Analysis & Modeling in Python 7 Time Dean's List	

TECHNICAL SKILLS

- Laboratory: Adherent Cell Culture, Immune Cell Culture, Lentivirus Production, Transduction, 3d Migration Gels, Brightfield Microscopy, Phase Contrast Microscopy, Aseptic Technique
- Computer Programming: Python, Java, HTML, CSS

RESEARCH EXPERIENCE

The Rezvani Lab at MD Anderson Cancer Center <i>Undergraduate Research Fellow</i>	Houston, Texas June 2025 – Present
<ul style="list-style-type: none">• Brainstormed, presented, and conducted my own project on the impact of nutrient deficiency on CAR-NK cells through methods of immunometabolic conditioning• Analyzed my own data, collaborated with high impact research scientists, and presented my findings to the Cell Therapy Institute and the Catalyst Program Poster Conference	

The Wirtz Lab at Johns Hopkins University <i>Undergraduate Research Assistant</i>	Baltimore, Maryland August 2024 – Present
<ul style="list-style-type: none">• Leading a project on developing a novel CAR-T therapy approach from scratch for an autoimmune disease• Collaborating with graduate student Eban Hanna on his PhD thesis project investigating the use of Velocity Receptors (VR) to enhance CAR-T cell motility in vitro, aiming to improve their ability to penetrate the tumor microenvironment• Conducting lentivirus production for CAR-T and VR-CAR-T constructs, transducing T-cells, and comparing their migratory behavior in collagen gels, observing that VR-CAR-T cells exhibit elevated migratory phenotypes through Brightfield microscopy imaging with the Nikon Ti2 microscope	

AstraZeneca <i>CAR-T Cell Therapy Intern</i>	Gaithersburg, Maryland May 2024 – August 2024
<ul style="list-style-type: none">• Tasked with writing, testing, and optimizing a procedure for rescuing cell suspension from process equipment used in the CAR-T Cell Therapy clinical manufacturing process in certain failure scenarios• Identified an unexpected finding during apheresis processing: suggested that in cases of equipment failure, material should be stored at room temperature for up to 5 hours instead of 2-8°C. Presented these findings to the Cell Therapy team and implemented updates to the standard operating procedure (SOP)• Created an Excel tool to automate cell count calculations for the manufacturing team at the Cell Therapy Facility• Carried out full scale CAR-T manufacturing processes to support non-clinical material generation requests	

WORK EXPERIENCE

Johns Hopkins University <i>Teaching Assistant</i>	Baltimore, Maryland January 2025 – Present
<ul style="list-style-type: none">• Teaching assistant for Introduction to Chemical & Biological Process Analysis (EN.540.202) in the Spring of 2025 and 2026: hold office hours, conduct weekly grading, and proctor exams, 10 hours per week• Work with a class of roughly 60 students, supervised by Dr. Nagma Zerin	

Johns Hopkins University <i>Learning Den Personalized Tutor</i>	Baltimore, Maryland August 2024 – Present
<ul style="list-style-type: none">• Tutored 3 students during the Fall 2024 semester in Engineering Thermodynamics, Organic Chemistry, and Calculus 1, met weekly to provide supplementary material to aid their studies	

EXTRACURRICULAR ACTIVITIES

- Johns Hopkins Men's Swim Team (2022-Present): dedicating 20+ hours per week to practices, weightlifting, and competitions, competed at the 2023, 2024, 2025 NCAA Division III Championships, placed 8th in the country in the 200 backstroke (2025)
- Omicron Delta Kappa Leadership Honors Society Event Coordinator (2024-Present): Organized and ran a service event titled "PB and Jams" in which 100 students attended to make 1,100 peanut butter and jelly sandwiches to support a local Baltimore food bank
- AIChE Big/Little Mentorship Program Mentor (2024-Present)

- Special Olympics Maryland Volunteer Swim Coach (2019-Present)
- Alpha Kappa Psi Business Fraternity (2023-Present)

AWARDS

- CSC Academic All American 2nd Team: One of 30 student-athletes in all of Division III nominated
- 3 Time NCAA First Team Scholastic All-American; 5 Time NCAA Division III All-American Honors (2023-2025)
- College Sports Communicators (CSC) All-District Honors (2023-2025)
- Maryland Sellinger Scholarship Homewood (2024-2025) | Maryland Senatorial Scholarship (2022-2026)