**Education**

**Illinois Institute of Technology (IIT)** GPA: **4.0/4.0**  
– Joint Bachelor and Masters of Science in Applied Mathematics  
– Minors in CS and Bioinformatics  
– Camras Scholars Program

**University of Wisconsin-Parkside (UWP)** GPA: **4.0/4.0**  
– Early College Credit Program

**Lakeview Technology Academy** GPA: **5.8/5.0**  
– Valedictorian

**Experience**

**Researcher in Mathematical and Computational Biology December 2021 – Present**

* Developing mechanical theory of biochemical interactions using stochastic estimation of molecular dynamics simulations with Dr. Bob Eisenberg and Dr. David Minh
* Employing computational packages such as **NumPy, MATLAB, OpenMM** on [UCSD’s supercomputing center Expanse](https://www.sdsc.edu/) to generate and analyze molecular dynamics simulations
* Leading collaboration with postdoc at the NIH’s National Institute on Drug Abuse to screen different opiates and understanding underlying mechanisms of opioid binding to the -opioid receptor

**Co-founder and Lead Engineer of Receptify October 2021 – May 2022**

* Receptify was a student-first technology platform meant to provide justice and a clear path to resources for survivors of sexual violence on college campuses
* Lead interviews with student organizations, crisis centers, and university stakeholders and oversaw code development
* Secured $19,000 in competition awards from the Grainger Foundation, the Kaplan Institute, and the SoReMo Initiative to develop the platform and forge a partnership with IIT

**Researcher in COVID Drug Modeling August 2021 – December 2021**

* Established a novel and more useful statistical technique for analyzing drug-dose response for COVID Moonshot project with Dr. David Minh and Dr. Lulu Kang
* Demonstrated theoretical robustness of statistical model through numerical simulations
* Awarded RES-Match grant from Pritzker Institute of Biomedical Science and Engineering

**Technical Skills**

Python (*6 years*), MATLAB (*2.5 years*), LaTeX (*3.5 years*), React, Java, C#, SQL (*1.5 years*)

**Extracurricular**

**Teaching Assistant for Multivariate Calculus August 2022 – Present**

* Teach a recitation/discussion section and grade quizzes for 50+ students

**President of the Machine Learning Club August 2021 – Present**

* Organize bi-weekly ML seminars and career development workshops for 200+ person club