

22 Robbins Rd Thompson CT 06277	LANCE D. WONG Lancedwong.com	(508) 579-1629 Ldw2125@columbia.edu Ldwong20@gmail.com
EDUCATION		
New York City, NY	Columbia University	Fall 2020 – May 2024
Computer Science and Math, School of Engineering and Applied Science, GPA: 3.80 <ul style="list-style-type: none"> Robotics Software Team, Rock Climbing Relevant coursework: AI, CS Theory, Probability For Engineers, Advanced Programming, Discrete Math, Fundamentals of Computer Systems, Linear Algebra, Data Structures in Java, Multivariable Calculus, ODE 		
Worcester, MA	Mass Academy at Worcester Polytechnic Institute	August 2018 – May 2020
High School Diploma, GPA: 4.0 unweighted <ul style="list-style-type: none"> Programming Team, Math Team, Western Mass American Regions Math League, BSA, Intramural Basketball Relevant coursework (with Dual Enrollment): AP Computer Science, Ordinary Differential Equations, Matrices and Linear Algebra I, Biotechnology, Cell Biology, Human Biology, Anatomy and Physiology 		
EMPLOYMENT		
Worcester, MA	AbbVie	May 2021 – Aug 2022
Software Engineer Intern <ul style="list-style-type: none"> Developed and maintained two asynchronous React web apps. Both which aided researchers in analyzing germline mutation. TS frontend, Python/TS backend, PostgreSQL database Converted molecular dynamics Jupyter Notebook into web-app Optimized De novo assembly PyTorch script by updating algorithm and translating to C++ Performed data analysis using NumPy on PACBIO data to find trends 		
Worcester, MA	University of Massachusetts Medical School	May 2019 – June 2020
Research Assistant <ul style="list-style-type: none"> Interned under Dr. Richmond to investigate immunological mechanisms in lupus and morphea Learned and performed over 10 types of lab tests to generate 7 figures for publication (ResearchGate) Wrote 4 articles for UMass Medical School Lupus website (UMMS Lupus Blog) 		
TECHNICAL EXPERIENCE		
Projects		
<ul style="list-style-type: none"> Manufacturing Standard Operating Procedure (SOP) (2022) Collaborated in a team of 5 to develop a VR simulation of a SOP using C# in Unity. Business case and grand winner of AbbVie Hackathon (HackVie) Personal Website: (2022) Developed personal website linked above using HTML and CSS ParticiPay (2021) Collaborated in a team of 4 to create a web-app designed to increase student engagement in online learning InStockBot (2021) Coded a Python script that regularly checks an item's price and availability on multiple sites, performs cost-analysis and sends a qualitative email alert to the user when a discount is found Music Motions: Mobile Application to Enable the Disabled to Play Music (2019-2020) Collaborated with 2 other team members to develop a face-tracking piano app that allows the user to play, save, and export music files using Android Studio and OpenCV 		
ADDITIONAL EXPERIENCE AND AWARDS		
<ul style="list-style-type: none"> BSA (2020): Eagle Scout, National Youth Leadership Training American Invitational Math Exam Qualifier (2019): Top 5% of the American Math Competition Math Team Coaching (2018 – 2019): Coached over 30 middle school students at St. Bernadette's middle school weekly during the school year MIT Massachusetts State Science and Engineering Fair 4th Place Award (MSEF) (2018): An investigation into the in-vitro interactions between Inter-alpha inhibitors and erythrocyte hemodynamics 		
Languages and Technologies		
<ul style="list-style-type: none"> JavaScript/TypeScript, Python, C++, C, SQL, Java, HTML, CSS, LaTeX ReactJS, ExpressJS, PostgreSQL, pgAdmin, MongoDB, Neo4j, Plotly, Pandas, PyTorch, NumPy, FireBase Windows, Linux, GitHub, Android Studio, Adobe Premiere Pro, Adobe Illustrator 		