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EDUCATION		
New York City, NY	Columbia University	Fall 2020 – May 2024
Computer Science, 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 collect data and generate 7 figures for publication 3 abstracts/supplements published (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) 		
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 		