EDUCATION

Seeking a co-op for January 2023 - June 2023

> Northeastern University, Khoury College of Computer Sciences, Honors

Candidate for a B. S. in Computer Science & Mathematics \\ Physics Minor \\ 3.87 GPA

Aug. 2021 - Dec. 2025

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> Holliston High School Holliston, MA

Aug. 2017 - May 2021

Computer Knowledge

- > Web Dev: React, MaterialUI, JavaScript, HTML/CSS, PHP, MySQL, REST API, Express, Jest, Node
- > Scientific Computing: Lean (Formal Verification), Slurm/HPC, TensorFlow, LATEX, Schrodinger Maestro
- > General: Java, Racket, Python, Linux, Bash, Git, C, Cuda, VEX RobotC, Git, Github, QtPy

Coursework * := in progress

- > CS: Object Oriented Design, Algorithms, Networks and Distributed Systems*, Logic and Computation*
- > Math: Calculus 3, Linear Algebra, Probability & Statistics, Statistics & Stochastic Processes*, Group Theory*
- > Physics: Physics 1, (Mechanics, Basic fluid dynamics), Physics 2 (Waves, Electricity, Magnetism)

Projects * := in progress

- > ML Excitation Model* Python, Maestro, MATLAB, Bash, TensorFlow Email for code Aug. 2022 Present Identify what aspects of chloramide, flavins, and styrene influence their excitation wavelengths when they are in proximity to each other. Have written a matlab/python script that transforms the raw coordinates of each atom into more usable and interpretable features, which then can be used as input for a neural network or rounded for use in a neural network to predict excitation wavelengths and strengths.
- > N-Bullets in Racket Racket Q/nbulletsrkt Apr. 2022
 Rewrote a project for a Java-based course in Racket to compare the two languages. Racket was terser, easier to properly test, and (subjectively) more readable. Additional findings and opinions are in the README.

Research and Work

- > Peer Tutoring: Discrete, Fundies 1 & 2, OOD, Algo, Phys 2, Calc 3, LinAlg, Prob & Stats Sep. 2022 Present
 - Demonstrate patience and professionalism with tutees having a variety of skill levels
 - o Generate new ways to explain content
- > Sijia Dong Lab: Computational chemistry research group

Dec. 2021 - Present

- Bypass time-consuming processes and calculations using automation scripts and ML
- o Listen and understand technical constraints and communicate progress and possible avenues for progress
- > Internship with Town of Holliston Director of Technology: Nov. 2020 Feb. 2021, Apr. 2021 May 2021
 - Implement proper settings and software on new desktops for various town departments such as the police and the senior center
 - Resolve problems with phones, printers, and file storage for various town employees
- > Kitchen Worker at Hannah BG Shaw Home for the Aged: Server, dishwasher & cook June 2020 Aug 2021
 - Fulfill resident requests in compliance with dietary restrictions
 - Exhibit patience and communicate clearly in a fast-paced environment

Interests and Other Skills

> B2 Proficiency in French \\ Proofs/logic \\ Climate emergency \\ Running \\ Amateur cooking \\ Political economy