

Daniel Susman

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EDUCATION

Northeastern University, Boston, MA	Sep. 2019 – Present
Khoury College of Computer Sciences	
<i>Candidate for a Bachelor of Science degree in Computer Science</i>	Expected Graduation: June 2023
Related Courses:	Algorithms and Data Computer Systems Object Oriented Design Logic and Computation Fundamentals of Computer Science I and II Mathematics of Data Models Discrete Structures
Honors:	GPA: 3.8/4.0 Dean's List Dean's Scholarship
Roy C. Ketcham Senior High School , Wappingers Falls, NY	Sep. 2015 – June 2019
Honors:	GPA: 103/100 National Honor Society 2017 – 2019 Third in the Class of 2019 Vice President of Math Team 2016 – 2019 Member of Conference All-State Symphonic Orchestra 2017 – 2018 Member of All-Eastern Symphonic Orchestra 2019

TECHNICAL KNOWLEDGE

Languages:	Java Python Bash Lisp LaTeX C
Systems:	macOS Linux Windows
Applications:	Git Microsoft Excel Adobe Creative Suite

PROJECTS

Sorting Algorithms Visualizer	Sep. 2020 – Present
<ul style="list-style-type: none">Design a Python application to illustrate the steps taken by various sorting algorithms when operating on arrays of random size, using Pygame libraryCreate intuitive environment including running time to enable asymptotic comparisons between algorithms	
ExCELLence Animation Editor	May 2020 – June 2020
<ul style="list-style-type: none">Developed a GUI application, utilizing Java Swing, to display animation sequences and allow users to edit objects shown on screenOptimized runtime and space complexity to enable smooth video scrubbing and information queryingDemonstrated an understanding of the MVC pattern and its benefits for extension, readability, and reduced coupling of system components	

EXPERIENCE

Lopez Lab Undergraduate Researcher, Boston, MA	Sep. 2020 – Present
<ul style="list-style-type: none">Explore quantum mechanics and nonadiabatic molecular dynamics to predict photochemical reaction outcomesTrain and test neural networks in Python to speed up expensive quantum chemical calculations, and report jobs with SLURMCollaborate with a team of three curious post-doctorate chemists, two graduate students, and six undergraduate students to analyze data and provide computer science knowledge, while managing individual tasks and deadlines	
National Parks Service Volunteer, Poughkeepsie, NY	Nov. 2016 – Dec. 2018
<ul style="list-style-type: none">Assisted teams of experienced National Park Rangers with delivery of entertaining, historic lessons about Eleanor Roosevelt and family to hundreds of peopleEstablished lasting connections with a dozen colleagues; practiced performing under pressure and communicating with strangersExemplified strong work ethic and self-discipline when training for ten hours per week	

INTERESTS

Hiking | Biking | Solar Energy | Music (Cello/Piano/Music Theory/Sound Design) | World Travel | Fitness | Cooking