**Education**

**Dartmouth College,** Hanover, NH **Sept 2020 – June 2024**

*Bachelor of Arts, Major in Computer Science Modified with Engineering* **GPA 3.60/4.0**

Relevant Coursework: Object Oriented Programming, Software Design and Implementation, Differential Equations, Linear Algebra, Discrete and Probabilistic Systems, Discrete Math, Algorithms (current), Machine Learning and Statistical Analysis (current) Embedded Systems (current)

Honors/Awards: E.E. Just Scholar

**Poly Prep Country Day School**,Brooklyn, NY **Sept 2015 – June 2020**

Honors/Awards: 9/11 Memorial Scholar, Jay Jordan Scholar Athlete Award

Activities: Coding Club, Umoja Affinity Group, Varsity Football, Varsity Lacrosse, Yearbook Club

**Skills & Certifications**

**Computer**: Java, Python, Bash, C, SolidWorks, HTML, CSS, MATLAB

**Technical Skills**: Machining, Laser Cutting, Soldering, Arduino

**Languages**: French (Intermediate), Spanish (Conversational)

**Projects**

**Sudoku Solver**

* Implemented a sudoku solving algorithm in C in a group of 3
* Completed unit and fuzz testing on our program to ensure proficiency
* Created a python GUI application to visualize our program at work and play the game

**Tiny Search Engine**

* Designed a three-part search engine including a web crawler, file indexer and file querier in C using fundamental coding design principles.
* Conducted unit and memory tests using Bash and C to affirm that my implementation is accurate and consistent

**Work Experience**

**Collins Aerospace,** Cedar Rapids, IA **June 2022- Dec 2022**

*SEPP AI/ML Intern*

* Formulated a searchable knowledge graph prototype of 40,000+ company training resources using Cypher and the Neo4j graph database and presented the data on a web application powered by python and streamlit
* Planned weekly meetings following an agile development framework
* Presented more than 10 presentations to different company divisions in order to build excitement and share our project with non-technical teams

**Dartmouth College,** Hanover, NH **June 2021- Dec 2021**

*Student Researcher, PI: Ryan Hickox, Funded by E.E. Just Summer Program*

* Researched the development and growth of black holes by focusing on low mass dwarf galaxies.
* Expanded the census of low mass black holes to better understand how black holes and galaxies come to form
* Presented our findings in a NASA black physicists forum and contributed to a published paper
* Analyzed data from the ESA’s XMM Newton observation of dwarf galaxy Mrk462
* Modeled and fit data to observe spectra and scripted in python and Tcl while using bash and command-line programming to clean satellite data via Xspec

**Leadership & Activities**

**Prep for Prep**, New York, NY **June 2014 – Current**

*Member*

* Completed a 14-month developmental program with the goal of putting more students of color in NYC prep and boarding schools
* Engaged in yearly leadership cohorts (Aspects of Leadership) in which I collaborated with my peers, lead and listened to discussions and activities pertaining to diversity and leadership

**National Society of Black Engineers Sept 2020 - Current**

*Member*

**Black Praxis Jan 2022 – Current**

*Layout Editor*

* Design and construct the layout of our magazine focused on black life at Dartmouth, featuring poetry, art, and models.
* Communicate within a small group via Discord to

**First Generation Low Income (FGLI) Physics and Computer Science Tutor Dec 2021- March 2022**

* Organized 3 weekly meetings with my tutees in college level physics and computer science courses

**Management and Leadership Development Program,** Hanover, NH **Jan 2021 – March 2022**

* Sharpened my management skills including, organizing a group, public speaking, negotiation training and interpersonal skills to build cohesive and diverse work environments

**Additional Experience**

**Poly Prep Summer Camp,** Brooklyn, NY **June 2016 - June 2021**

*Camp Counselor*

* Communication in smalls groups and gained leadership skills to lead and engage with our young campers to bring them a safe and entertaining summer experience
* Accountable and adaptable, as a bus counselor as well I assisted in making sure each camper was safely on and off the buses to and from camp each day and met with staff for bonding activities and logistics each week