

## EDUCATION

---

- Tufts University**, Medford, MA **May 2022**  
GPA: 3.9, Dean's List  
B.S. in Computer Science and B.A. in Chinese  
Relevant Courses: Algorithms, Artificial Intelligence, Machine Learning, Linear Algebra, Computational Geometry
- Princeton Day School**, Princeton, NJ; Cum Laude Society **Jun. 2018**  
Courses taken at Princeton University: Intro to CS, Algorithms and Data Structures

## SKILLS

---

**Tools:** Git, Github, Linux, Xcode, Android Studio, Firebase, LaTeX, Scikit Learn, Adobe Creative Cloud, Microsoft Office  
**Languages:** C, C++, Java, Python, MATLAB, React, React Native, JavaScript, Node.js, HTML, CSS

## EXPERIENCE

---

- Tufts Computational Geometry Lab; Research Assistant** **Aug. 2020 – Present**
  - Discover optimal algorithms for the reconfiguration of self-assembling modular robots
  - Program visualizations and an interface for testing reconfiguration techniques
- ALIAS Technology**, Georgetown, DE; Machine Learning Intern **May. 2020 – July 2020**
  - Implement syntactic authorship identification for forensic linguistics consulting
  - Build python scripts to predict authorship of unknown documents and classify documents among authors using logistic regression, SVM, Naive Bayes, and other approaches in Scikit Learn
- T-TRIPODS Institute DIAMONDS Research Program**, Boston, MA; Research Assistant **Jun. 2020 – Aug. 2020**
  - Collaborate with researchers on self-assembling robots in an NSF-funded data science program
- USDA Human Nutrition Research Center**, Boston, MA; Research Intern, Software Engineer **Apr. 2019 – Present**  
Project 1: Mobile App Development
  - Develop an iOS and Android app for the Energy Metabolism Laboratory with React Native
  - Design an algorithm for monitoring adherence to weight-loss diets with guidance of the Lab Director
  - Present progress to scientists and adapt features to accommodate suggestions of lab membersProject 2: Machine Learning
  - Create a program to predict the severeness of calorie misreporting in meals using ML approaches
  - Apply network to lab studies to correct error-prone calorie reporting dataProject 3: Scientific Review Paper
  - Collaborate with scientists across multiple universities to write a literature review
  - Write about and research new technologies to improve the accuracy of dietary intake assessment
- COMP 160: Algorithms; Teaching Assistant, Recitation Co-leader** **Jan. 2020 – Present**
  - Run weekly recitations with 25+ students; hold weekly office hours; design/grade assignments and exams

## LEADERSHIP

---

- Tufts Computer Science Exchange; President** **Nov. 2019 – Present**
  - Manage Tufts CS club which hosts monthly events and biweekly meetings
  - Oversee CS Dept. events and Tufts hackathons, including Polyhack and ID Hack
  - Communicate student concerns to department; act as bridge between students and faculty
- Polyhack; Chair of Committee, Director of Hackathon** **Sept. 2019 – Present**
  - Coordinate the university-wide hackathon hosted yearly; 300+ attendees in Oct. 2019
  - Communicate with tech firms and other sponsors to raise upwards of \$15,000
  - Build and manage the 10-person Polyhack Committee, allocate tasks to members
- Tufts Daily; Executive Copy Editor** **Apr. 2020 – Present**
  - Direct the largest section of the student newspaper; participate in executive board meetings
  - Supervise 30+ copy editors and approve article changes; edit articles for style and grammar