

## EDUCATION

### Tufts University

**Bachelor of Science, Computer Science**

Minor: Mathematics, Music

GPA: 3.63 | Dean's List - Fall 2021, Spring 2022, Spring 2023

**Completed Coursework:** Algorithms, Data Structures, Machine Structure & Assembly Language, Linear Algebra, Discrete Mathematics, Multivariable Calculus

**Current Coursework:** Programming Languages, Computation Theory

**Medford, MA**

Expected May 2025

## SKILLS

### Programming Languages

C++

C

Python

X86 Assembly

HTML/CSS

Bash/Shell

### Software Packages

Linux (Ubuntu)

GDB

Latex (Overleaf)

QCacheGrind

VS Code, Atom

### Tools

Microsoft Excel,

PowerPoint, Word

Google Docs, Slides,

Spreadsheet

Adobe Photoshop

macOS Pages,

Keynote

Final Cut Pro

### Spoken Languages

English (native)

Japanese (native)

French (intermediate)

## EXPERIENCE

### Tufts University, Department of Computer Science

**Medford, MA**

Teaching Assistant for Intro to Computer Science

Sept. 2022 – Present

- Supported 300+ students by holding office hours and leading weekly labs to reinforce new concepts, assisting with assignments, and explaining challenging topics
- Graded assignments and exams and provide feedback for each
- Maintained open communication with faculty and TAs regarding course matters

### KidzToPros

**Medford, MA**

STEM Instructor

July 2023 – Aug. 2023

- Designed a game design curriculum for 15 students to create adventure maps in Minecraft
- Guided 10 students in building robots using LEGO motors and sensors, and programming

### MikiHouse Americas, Inc.

**Mt. Vernon, NY**

Product Description Translator

Jan. 2021 – Jan. 2023

- Translated descriptions of children's apparel from Japanese to English for MikiHouse Americas' online store applying creative writing to highlight each product's features
- Contributed to an overall increase of 300% of online sales over the two years

### Tufts University, StAAR Center

**Medford, MA**

Japanese Tutor

Sept. 2022 – Dec. 2022

- Conducted one-on-one tutoring sessions for students who study Japanese
- Engaged with students to practice grammar and develop speaking skills

## PROJECTS

JPMorgan Software Engineering Virtual Experience Program on Forage

July 2023

- Utilized the Perspective software to monitor stock prices and determine trading strategies
- Generated a live graph showing stock prices using Typescript, React, and Python

RPN (um asm)

May 2023

- Implemented a Reverse Polish Notation calculator using the Universal Machine Macro Assembler, a previously developed front end for user-friendly assembly language
- Adapted a call stack, a value stack, and registers, and developed macros to efficiently carry out operations

UM Emulator (C)

Mar. 2023

- Created a simple virtual machine that read in 32-bit instructions and carried out tasks accordingly
- Optimized task performance by an average of 1500% using clean, modular structure

Gerp (C++)

Dec. 2022

- Developed a replication of the `grep` Linux utility to search for user-inputted words in a given directory containing numerous files using hashing for efficient data storage and search

## ACTIVITIES

Tufts Symphony

Piano Trio

Japanese Culture Club

## INTERESTS

Design

Photography

Travel

Classical Music

Cooking and Baking