

Personal Website | Github

(914)-374-8439 | iaintier@buffalo.edu

FDUCATION

UNIVERSITY AT BUFFALO

BUFFALO, NY | MAY 2022 BACHELOR OF SCIENCE Major: Computer Science

Cum. GPA: 3.88 / 4.0 Major GPA: 3.96 / 4.0 Honors: Deans List

WORK EXPERIENCE

UNIVERSITY AT BUFFALO

RESEARCH, SPACE TETHER-NET SIMULATION

Jan 2021 - Present | Buffalo, NY

- Simulation of tether-nets to capture and remove space debris.
- Improve simulation speed by implementing parallelization in C++ as well as implementing version control.

UNIVERSITY AT BUFFALO

TEACHING ASSISTANT

Jan 2020 - May 2020 | Buffalo, NY

- Lead groups of students through Python projects using quantitative analysis.
- Lead lab sections and office hours as well as proctored exams.

TOWN OF SOMERS

DATA COORDINATOR INTERN

May 2019 - August 2019 | Somers, NY

- Improved data storage by implementing a sorting algorithm to find site users based upon various data points.
- Digitized data as CSV files using Python and stored physical files.

RELEVANT COURSES

UNDERGRADUATE

- Software Engineering
- Algorithms and Complexity
- Systems Programming
- Discrete Structures
- Data Structures
- Computer Organization

PROJECTS

VIEW MORE PROJECTS

HEALTH FITNESS APP | VIEW PROJECT

September 2020 - Current

- Built with Python, Flask, SQLite, Nix and Vue to keep track
 of users nutrition and health, allow users to share fitness
 tips and feats, calculate various body-health
 measurements, and more.
- A health tracker and fitness web app built with an agile development team consisting of four other members.

SORTING VISUALIZER | VIEW PROJECT

September 2020

- A web app built with jQuery, CSS3, Bootstrap and HTML5 to visualize, pause, and control the speed of various sorting algorithms.
- Implemented Quick sort, Bubble sort, Selection sort and Insertion sort.

AUDIO VISUALIZER | VIEW PROJECT

August 2020

- A web app built with jQuery, CSS3, Bootstrap and HTML5 to visualize audio tracks using their respective frequencies.
- Using jQuery and JSON to send GET requests to the SoundCloud API, a user can search for a song and enjoy the real time visualization.

DYNAMIC MEMORY ALLOCATOR

VIEW ON GITHUB

April 2020

- An implementation of malloc(), calloc(), realloc(), and free(); built with C and tested with Makefile.
- Capable of running many single-threaded Linux applications.
- Utilizes Multi-pool allocation to efficiently use the system call for requesting memory blocks from the operating system.

SKILLS

PROFICIENT WITH:

C++ • Python • JavaScript • Scala

Git • Bootstrap • HTML5

CSS3 • Agile(Scrum) • jQuery

Flask • JSON

FAMILIAR WITH:

MySQL • Vue • React

C • Java • Assembly (MIPS)