

### Personal Website | Github

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# **EDUCATION**

### **UNIVERSITY AT BUFFALO**

BUFFALO, NY | MAY 2022

BACHELOR OF SCIENCE

Major: Computer Science

Cum. GPA: 3.85 / 4.0 Major GPA: 3.95 / 4.0

Honors: Deans List

### **SOMERS HIGH SCHOOL**

Somers, NY | Grad. June 2018

**HS DIPLOMA** 

Honors: High Honor Roll

## RELEVANT COURSES

### **UNDERGRADUATE**

- Software Engineering
- Systems Programming
- Discrete Structures
- Data Structures
- Computer Organization

# WORK FXPERIENCE

### **UNIVERSITY AT BUFFALO**

**TEACHING ASSISTANT** 

Jan 2020 - Present | New York, NY

- Host lab sections and office hours as well as proctor exams.
- Reviewing computer science concepts taught in the classroom.
- Leading small groups of students to the completion of various programming assignments.

#### **TOWN OF SOMERS**

OFFICE CLERK

May 2019 – August 2019 | Somers, NY

- Sorted and stored data for the Town of Somers Parks and Recreation office.
- Kept physical files and digitized records organized for easy updating and retrieval by authorized team members.
- Provided clerical support to company employees by copying, faxing and filing documents.

# **PROJECTS**

### SORTING VISUALIZER | VIEW PROJECT

September 2020

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

### AUDIO VISUALIZER | VIEW PROJECT

August 2020

- A web app that integrates the SoundCloud API to visualize audio tracks using their respective frequencies.
- Using JSON to talk to the SoundCloud API, a user can request a song and watch/listen in real time to the visualization.

### DYNAMIC MEMORY ALLOCATOR

VIEW ON GITHUB

April 2020

- An implementation of malloc(), calloc(), realloc(), and free().
- Uses the method of multi-pool allocation to fetch and store memory blocks from the operating system.
- Capable of running many single-threaded linux applications.

# PATHFINDING VISUALIZER | VIEW ON GITHUB Fall 2019

• Duilt with IC Scala Ald

- Built with JS, Scala, Akka actor system and SocketIO for the server.
- Finds the shortest path for a character to a user selected location while avoiding impassable "water" tiles.
- Implemented with Breadth-first search.

# **SKILLS**

### **TECHNICAL SKILLS**

Proficient with:

Python • C • Assembly(MIPS) • Scala Java • Javascript • HTML5 • CSS3 JSON • Git • Agile(Scrum)

Familiar with:

MySQL • Flask • Bottle

#### **SOFT SKILLS**

Problem Solver • Collaborator Organized • Leader