

# CHARLES BEAM

Computer Science Student Seeking a Summer 2022 Co-Op

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## PROJECTS

### RFID Location Declaration System | C++, MySQL, and LaTeX

<https://charlesbeam.com/proj/distinction>

- A system that allowed for students to declare this location by scanning a rfid tag
- Allows for classrooms and clubs to take attendance without wasting time

### Payload for Recording Environmental Data | C++

<https://charlesbeam.com/proj/LAACESProgManager>

- Programming manager on a team of 5 people where a payload was launched into the upper atmosphere (100,000 ft)
- Visualised saturated vapor pressure as a function of altitude
- In charge of programming board and conducting rigorous testing to ensure the program would not break during flight

### Graph Automation App | Python and Matplotlib

<https://laspace.lsu.edu/laaces/>

- Python program that automates the graphing of the data collected from the payload mentioned in the project above
- Created a multitude of different graphs from a .txt file and saved them all to a folder to ease in the creation of a presentation for LASPACE

### Lightweight Ordering System | Python

<https://www.youtube.com/watch?v=pVr1gWb4uDk>

- A restaurant ordering system that would allow people to order at restaurants without speaking to their waiter in an effort to slow the spread of Covid-19
- This program has basic ordering, menu, and current orders functionality
- Submitted to the Congressional App Challenge LA-06 where it won Honorable Mention & Most Likely to Save a Life

### Portfolio Website | HTML, CSS, and Kubernetes

<https://charlesbeam.com/>

- Serves as a hub for my resume, project write-ups, and general information

## EXPERIENCE

### RIT Computer Science Department

**Ambassador** | Sept 2021 - Present

- Discussing experiences to prospective CS students
- Working at CS Department events
- Communicating in open discussions regarding CS students opinions/experiences

### Texas Roadhouse

**To-Go Staff** | May 2021 - Aug 2021

- Worked in a high stress environment packaging and checking out to-go orders
- Worked with a team to ensure to-go orders got out fast
- Communicated with customers about order errors and worked to resolve issues

## EDUCATION

### Rochester Institute of Technology

B.S. in Computer Science | 2021-2025

## SKILLS

### Languages

Proficient: Python LaTeX C++ Java

Experienced: HTML CSS JavaScript

### Technologies

Proficient: Linux Git Github

Experienced: MySQL Flask Bash

Kubernetes Vim

## AWARDS

### Congressional App Challenge Honorable Mention & Most Likely to Save a Life | 2020

Lightweight Ordering System

### Congressional App Challenge 3rd Place | 2019

Early Prototype of Student Location Declaration System

## RELEVANT COURSES

- Data Structures | C++
- Graph Algorithms | Python
- Software Engineering | Python
- C++ Through Game Design | C++
- Fundamentals of HTML, CSS, & JavaScript | HTML, CSS, and JavaScript
- AP Computer Science A | Java (5 on AP exam)

## ACTIVITIES

### Computer Science House | csh.rit.edu

**Member** | Aug 2021 - Present

A group of students at RIT who come together to advance each others knowledge of computer science and to maintain strong social relations.

### Computer Science Community |

[campusgroups.rit.edu/cscommunity](https://campusgroups.rit.edu/cscommunity)

**Member** | Aug 2021 - Present

A group of computing students at RIT dedicated to helping each other thrive socially, academically, and professionally.