

# CHARLES BEAM

Computer Science Student Seeking a Summer 2022 Co-Op

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in Charles Beam

## PROJECTS

Student 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 at 100,000ft | C++

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

- Programming manager on a team of 5 people where a payload was launched into the upper atmosphere (100,000ft)
- 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

## ACTIVITIES

Computer Science House

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

Member | Aug 2020 - May 2021

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

Computer Science Club

President | Aug 2020 - May 2021

Responsible for planning club meetings and presenting computer science related presentations.

Robotics Club

Co-President | Aug 2020 - May 2021

Responsible for planning club meeting and getting everyone in the club organized.

## EDUCATION

Rochester Institute of Technology

B.S. in Computer Science | 2021-2025

Louisiana School for Math Science & the Arts

Public Residential High School | 2019-2021

## SKILLS

Languages

Proficient: Python LaTeX C++ Java

Experienced: HTML CSS

Technologies

Proficient: Linux Git Github

Experienced: MySQL Flask Bash

Kubernetes Vim

## AWARDS

LSMSA Distinction | 2021

Finalized Version of Student Declaration System

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)