

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>

Personal Project

- 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>

College Team Project

- 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/>

Personal Project for LAACES Team

- 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>

Personal Project

- 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/>

Personal Project

- 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

Python LaTeX C++ Java HTML
CSS

Technologies

Linux (Arch, Ubuntu, Debian) Git Github
MySQL Flask Bash
OKD4/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

Member | Aug 2021 - Present

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