CHARLES BEAM
Computer Science Student Seeking a Summer 2022 Co-Op

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in Charles Beam
○ Cbturtle2

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

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

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
Member | Aug 2021 - Present
A group of computing students at RIT dedicated to helping each other thrive socially, academically, and professionally.