

CHARLES BEAM

Computer Science Student Seeking a Summer 2022 Co-Op

✉ charleslbeam@gmail.com
🌐 charlesbeam.com
☎ (225) 916-4447
in Charles Beam
🐢 Cbturtle2

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

EXPERIENCE

Computer Science House

Drink Admin | Nov 2021 - Present

- In charge of maintaining vending machines and web interface
- Project mentioned in PCMag top 10 greatest hacks of all time
- Ensuring that machines are stocked and in working order
- Web interface written in Javascript with a back-end in Python running in a docker container on OKD/Kubernetes

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 C++ Java LaTeX

HTML/CSS

Technologies

Linux (Arch, Ubuntu, Debian) Git Github

MySQL Flask Bash Vim LDAP

OKD4/Kubernetes Vending Machines

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/Drink Admin | 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.