

CHARLES BEAM

Software Engineer Seeking a Summer 2022 Internship

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🐼 Cbturtle2
in Charles Beam

PROJECTS

Student Location Declaration System | C++, MySQL, and LaTeX

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

Created a system that allowed for students to declare this location by scanning a rfid tag. This system allows for classrooms and clubs to take attendance without wasting time. This system also allows for students to easily declare the building they are in. Built using C++ and MySQL with a writeup in LaTeX.

Payload for Recording Environmental Data at 100,000ft | C++

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

Was programming manager on a team of 5 people where a payload was launched into the upper atmosphere (100,000ft) with the goal of visualising saturated vapor pressure as a function of altitude. Was in charge of programming board and conducting rigorous testing to ensure the program would not break during flight. This program was written onto a Arduino Mega using C++

Graph Automation App | Python and Matplotlib

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

Created a 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. This program was written in Python using the matplotlib library using Python.

Lightweight ordering system | Python

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

Created 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. This program was written in Python and 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/>

Created a basic portfolio website using HTML and CSS which was deployed through kubernetes. This website serves as a hub for my resume, project write-ups, and general information.

EXPERIENCE

Texas Roadhouse

To-go Worker | May 2021 – Aug 2021

Responsible for working with a team to ensure that to-go orders went out successfully. Worked in a fast paced, team oriented environment.

Maxwell's Market

Salad Specialist | April 2020 – Aug 2020

Responsible for salad area in a local grocery store. Had to juggle many different tasks throughout the day while making sure customers were being taken care of. Learned to thrive in a productivity focused environment.

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

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

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.