

CHARLES BEAM

Computer Science Student 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.

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)