CHARLES BEAM

Computer Science Student Seeking a Summer 2023 Co-Op

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in Charles Beam

EXPERIENCE

Bryx | Full Time
Web Development | May 2022 - June 2023
- Made critical design decisions for Records Management System from initial concept of product to beta release
- Maintained/Developed a large Typescript/React codebase utilizing an Agile workflow to give accurate time estimates to management
- Developed a user interface library from scratch for entire company's products. Made to be lightweight, customizable, and accessible utilizing just HTML, tailwind, and ARIA.

Bryx | Internship
Data Science | Feb 2022 - May 2022
- Created scripts that take Freshdesk and 3CX data exports and convert them into insightful metrics for our support team
- Worked with support team to cut down on average support time and get through more tickets/calls

RIT Computer Science Department | Part Time
Ambassador | Sept 2021 - May 2022
- Discussed college experiences with prospective CS students
- Worked events with 100s of people including tours and live Q&A sessions
- Communicated in open discussions regarding CS students opinions/experiences with head faculty

Louisiana Aerospace Catalyst Experiences for Students | College
Programming Manager | Jan 2019 - Aug 2021
- Programming manager on a team of 5 students which launched a payload into the upper atmosphere (100,000 ft)
- Programmed board utilizing C++ and conducted rigorous tests to ensure the program did not fail during flight
- Worked with other team members to discuss interfacing with other parts of the project

PROJECTS

RFID Location Declaration System | C++, MySQL, and LaTeX
https://charlesbeam.com/proj/distinction   Personal Project
- Created a system that allows students to declare their location by scanning a RFID tag
- Allows for classrooms and clubs to take automated attendance, allowing for saved time to be used teaching
- Wrote a paper and gave a presentation on the project available with the above link

Graph Automation App | Python and MatPlotLib
https://laspace.lsu.edu/laaces/   Personal Project for LaACES Team
- Created a multitude of different graphs from a .txt file containing hundreds of thousands of data points and saved them as pictures for ease in the creation of a time-sensitive presentation to LaSPACE & LaACES leaders

EDUCATION

Rochester Institute of Technology
Started B.S. in Computer Science | 2021 - 2022

Louisiana State University
B.S. in Computer Science | 2022 - 2025

Louisiana School for Math, Science, and the Arts
Public Residential High School | 2019-2021

SKILLS

Extensive Experience
Python Typescript/JSX/Tailwind React Git LaTeX 3CX

Notable Experience
Java C++ C Linux (Debian & Arch) Kubernetes AWS Jira

AWARDS

Congressional App Challenge Honorable Mention & Most Likely to Save a Life | 2020
- Utilized Python to create a lightweight ordering system
- System was designed to cut down on customers ordering face to face with waiters, reducing Covid transmissions

Congressional App Challenge 3rd Place | 2019
- Early prototype of Student Location Declaration System
- Arduino program capable of recognizing a RFID tag and display a name of the owner

ACTIVITIES

Computer Science House
Social Director | Aug 2021 - May 2022
- In charge of planning and hosting social events
- Hosted weekly social meetings to inform members on upcoming social events
- Member of Executive Board which was in charge of running the 60 person organization

Computer Science Community
Competitive Coding Pillar Head | Jan - May 22
- In charge of giving presentations on competitive coding
- Planned and hosted monthly coding competitions for members