JARRETT BIERMAN

Computer Science Student

@ jarrettbierman@gmail.com   ☎ 551-579-3649   🔗 https://jarrettbierman.github.io/   in /in/jarrett-bierman-0aa6a71ab/

TECHNICAL SKILLS

- C/C++, Java, Python, C#, SQL, HTML/CSS, JavaScript, Swift, Bash
- React, Redux, .NET, Express, Node.js, Flask, Processing/p5, Heroku, Git, Socket.io
- MongoDB, Firebase, MySQL, Photoshop, Premiere Pro, Unity, Logic Pro X, FL Studio, Ableton Live, Microsoft Office, Windows, MacOS, Linux

EXPERIENCE

Student Researcher

Telemann Chorale Project - Arts Engine

📅 Jan 2021 – Dec 2021   📍 Ann Arbor, MI

- Collaborated with a faculty-led team of students on a computational study of creativity in baroque vocal music.
- Designed a computation model to realize baroque-era chorales based off computational linguistics and contrapuntal grammar.
- Programmed the model using custom data structures and backtracking algorithms. Built with Python.

Application Engineer Intern

rater8

📅 May 2021 – August 2021   📍 Remote

- Collaborated with a large team to design and develop admin features for the rater8 Web Application.
- Implemented various aspects of the front-end and back-end using tools in the .NET ecosystem like C#, SSMS, MySQL, Razor, and more.

Full Stack Web Developer Intern

Produce Locator PBC

📅 Oct 2020 - Jan 2021   📍 Remote

- Collaborated with a team in implementing the React based front-end, back-end, and database of the Produce Locator Web Application.
- Designed the user interface and constructed a custom API to add functionality to the multifaceted application.
- Built with MongoDB, Express, React, Redux, Node.js, and more.

Full Stack Web Developer Intern

Done Waiting

📅 Oct 2020 - Jan 2021   📍 Remote

- Led the front end team, designed the user interface, and interacted with database elements.
- Assembled the front end, back end, and database of the React/Flask based Done Waiting Voter Database and Web Application.

EDUCATION

B.S. Computer Science

University of Michigan - GPA: 3.6

📅 2019 – Current   📍 Ann Arbor, MI

High School Diploma

Pascack Hills High School - GPA: 4.4

📅 2015-2019   📍 Montvale, NJ

PROJECTS

Portfolio Website - 2021

- Created and maintained a website holding resume, contact, and bio information.
- Programmed with HTML, CSS, and JavaScript.
- https://jarrettbierman.github.io/

Stock Market Simulator - 2021

- Created as a project for EECS 281 (Advanced Data Structures and Algorithms) as an application of stacks, queues, and priority queues.
- Designed "buyers" and "sellers" and implemented their interactions with each other on the market.
- Constructed a streaming algorithm the overlooks which entire market and determines the most and least promising stocks to buy.
- Programmed in C++.

Playlist Battle - 2020

- Interactive online application which makes a game out of users Spotify playlists.
- Backend written in Python, Frontend written in HTML/JavaScript/CSS, Hosted through the Heroku CLI.
- https://playlistbattle.herokuapp.com/

EQDraw - 2019

- Real-time online drawing and messaging application where clients can draw, erase, and chat on the canvas simultaneously.
- Front-end and Back-end written with JavaScript, HTML, and CSS, Hosted through the Heroku CLI.
- http://eqdraw.herokuapp.com/

Career Day Sorter - 2019

- Sorted 800 students to their preferred Career Day speakers in accordance with their top choices and an assortment of variables.
- Collaborated with a team of 12 student programmers in Java and Python, using Git to merge different groups' code to a final project.