

Joshua Hess

📍 Austin, Texas ✉ josh@hessjd.com ☎ 214-449-8318 🔗 <https://github.com/DasherDo>
in <https://www.linkedin.com/in/joshua-hess-335526210/>

PROFESSIONAL EXPERIENCE

Laboratory Supervisor

08/2021 – present

The University of Texas, Austin

Austin

- Led and managed a team of 30 researchers over a 2-year period and developed informational materials to support and explain the goals of experiments.
- Trained researchers in the use of R-studio, Excel, and imageJ, enabling them to efficiently and effectively analyze data and complete their research projects.
- Mentored and supported undergraduate students, helping every student achieve success in their research goals and earn a 90% or higher grade.

PROJECTS

Stock Trading Website

2022

Developed a website for buying and selling stock using realtime data

- Developed using MERN stack.
- Created a web-scraping algorithm to obtain current and historical stock prices to provide users with a real-time trading platform.
- Implemented user authentication and integrated a stock data API to transfer data between MongoDB and the frontend.
- Incorporated line charts to show the stock's price over time with interactive features using the Chart.js library.

Realtime Chat App with Socket.io

2022

- Utilized React.js for the front-end interface and a Node.js and Express.js backend to handle server-side processing and routing.
- Incorporated user authentication and utilized MongoDB and mongoose for database management, including storing user information and chat messages.
- Constructed an API to allow the React.js front-end to make requests to the backend and MongoDB, enabling real-time data updates and seamless communication between the front-end and backend.

Sorting Algorithm Visualizer

2021

- Created a web-based React application that demonstrates the steps of various sorting algorithms such as bubble sort, insertion sort and merge sort.
- Utilized interactive visualizations to show the progression of each algorithm and compare them in terms of efficiency and performance.
- Created a user interface for selecting different algorithms and adjusting the size and complexity of the data set

EDUCATION

BS. Biology

present

University of Texas, Austin

Austin

SKILLS

Python | **mongodb/mongoose** | **HTML/CSS** | **JavaScript** (React.js, Node.js, Express,)

Git/Github | **SQL** | **Excel** | **R/R-Studio** | **C++**