Ben Muthalaly

Pearland, Texas

(832)-289-0190

benmuthalaly@gmail.com

github.com/benmuth

RELEVANT EXPERIENCE

Recurse Center   Aug–Nov 2022
Participant

- Pair programmed daily on PairPad text editor (see below).
- Studied the properties and design tradeoffs of distributed systems through reading "Designing Data-Intensive Applications" with a group.
- Learned JavaScript, HTML, and CSS to create several small web projects.

PROJECTS

PairPad   github.com/burntcarrot/pairpad
Collaborative Text Editor

- Worked with another Recurser to design and develop a robust, stateful, and highly concurrent terminal text-editing application, written in Go.
- Leveraged Go's powerful concurrency primitives to eliminate data races while maintaining high performance.
- Enabled real-time, consistent collaborative editing by utilizing Conflict-free Replicated Data Types (CRDTs).
- Implemented a client-server architecture using the WebSocket protocol to maintain active connections between clients.

N-ary Piano   piano.benmuth.com
Musical web application

- Used the Tone.js library to create a customizable interactive keyboard and synthesizer.
- Implemented user options for things like note choice, numeric base selection, and piano count, allowing personalized exploration.
- Integrated URL sharing for collaborative piano configurations with friends.

OTHER WORK EXPERIENCE

Delicious Hospitality Group   Oct 2021– Jun 2022
Line Cook

- Thrived in several fast-paced environments requiring constant adaptation and communication.
- Worked at well-regarded Manhattan restaurants such as Charlie Bird and Legacy Records.