Hassan Toor

hassantoor8@gmail.com | (215) 584-3850 | hassantoor.com | github.com/htoor91 | linkedin.com/in/hassantoor

PROJECTS

Quicknote | JavaScript, React, Redux, Ruby on Rails, PostgreSQL   LIVE | GITHUB

Full stack single page note taking app with notebook/tagging organizational capabilities.

- Implemented a rich text editor to allow users various note tools by incorporating Quill.js
- Built an efficient autosave mechanism through state comparison and diff checks
- Constructed notes with relative time stamps and note index organization by "most recent" through the use of Moment.js and sort functions at the reducer level
- Engineered a DRY note filtering solution with notebook and tag features through the use of backend associations and frontend React components
- Optimized backend code to minimize redundant queries to the database through the use of prefetching, ultimately allowing for a smoother user experience

Cellular | JavaScript, HTML5, CSS3   LIVE | GITHUB

Interactive cell-survival JavaScript game using HTML5 Canvas elements

- Implemented 3 different game modes, including a local competitive multiplayer using game mode state selectors and object oriented design principles
- Engineered a 2D physics engine using velocity and friction to allow for smooth movement across game board
- Constructed a collision detection system using object radii and distance calculations that allows smaller cells to be consumed

kingDOM | JavaScript   DEMO | GITHUB

Lightweight library that simplifies DOM manipulation, event handling, and AJAX requests

- Utilized native JavaScript DOM API in order to manage library's core DOM functionality

SKILLS

JavaScript | React | Redux | jQuery | Rails | Ruby | Python | SQL | HTML | CSS | Heroku | TDD | Git

EXPERIENCE

Texas Instruments - *Applications Engineer Intern*   JUNE 2014 - AUG 2014

- Developed evaluation module lab testing methods and utilized acquired data to produce a 28 page User Guide to be distributed among customers to solve common questions
- Repurposed design of particular PMIC to allow for low-cost overheat detection functionality. Created app note to provide ease-of-use and setup for customers

Texas Instruments - *Validation Engineer Intern*   MAY 2013 - AUG 2013

- Coordinated lab automation setup for IC testing using LABVIEW/TestStand which allowed for a 75% team-wide increase in validation testing efficiency

EDUCATION

App Academy - New York, NY   OCT 2016 - JAN 2017

- Intensive 1000+ hour full-stack programming school with < 3% acceptance rate and an emphasis on algorithms and data structures

Rose-Hulman Institute of Technology - Terre Haute, IN - *Electrical Engineering*   2010-2014

- Relevant Coursework: Object Oriented Programming, Linear Algebra, Discrete Math