Brady Kimball

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PROJECTS

Elucidate (Ruby on Rails, React.js) | *Full Stack Engineer* live | github

Full stack web-app in the vein as genius.com, a site for users to upload lyrics, add annotations with lyric meaning, and vote on the best interpretations

- Implemented event handlers enabling users to add annotations by highlighting text
- Utilized custom SQL queries in ActiveRecord to have a single input return fuzzy search results from multiple tables in the database as the user types
- Minimized database complexity by using polymorphic associations for user votes on comments or annotations

Schemer (Vue.js, Express.js, MongoDB) | *Full Stack Engineer* live | github

Database design and generation webapp that allows users to setup tables, set column validations and create table relationships by dragging and selecting elements in the editor.

- Learned brand new stack, designed and completed the project in the scope of a week
- Chose to integrate express with MongoDB due to lightweight backend needs and the non-relational requirements of the JointJS library.
- Created the parsing logic to convert the JointJS graphical model into an executable SQL script

Breathe (JavaScript, jQuery, HTML5 Canvas) | *Full Stack Engineer* live | github

Javascript visualization of cyclic cellular automata, a concept in math and computer science that describes a grid of cells whose values are determined by the value of their surrounding cells.

- Used Javascript and jQuery to manipulate over 30,000 canvas objects 20 times per second
- Utilized jQuery for more efficient event handling when starting and stopping simulation
- Gave users opportunity to manipulate simulation parameters and see results on the fly
- Implemented a user paint mode so users can create their own starting conditions

SKILLS

Ruby, Ruby on Rails, Javascript, jQuery, React.js, Redux, HTML5, CSS3

EDUCATION

App Academy *(Spring 2017)*

Rigorous 1000-hour web development course

UC Berkeley *(Spring 2015)*

BS, Mechanical Engineering

WORK EXPERIENCE

Mechanical Vehicle Engineer - Space Systems / Loral *(2015 - 2017)*

- Developed macros and VBA scripts in Excel to reduce work instruction generation time by approximately 50%
- Managed a team of eight mechanics to oversee the entire mechanical assembly, integration and test of a $300M communications satellite from design through launch
- Awarded "Apogee" and "Asterism" awards for generating an estimated $70,000 in annual cost savings and process improvement by developing system analysis tools in python

Active Magnetic Bearing Intern - Calnetix Technologies *(2014)*

- Improved MATLAB based tools for linear response analysis
- Developed MATLAB tools to access several types of data files created during machine testing, process the data, compare it to acceptance criteria and place in a trend sheet
- Improved and converted transient, nonlinear rotordynamic simulations from Fortran to MATLAB