Jessica Yao

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GitHub · LinkedIn · Website

Projects

Ripple (Ruby on Rails, React/Flux)   Link · GitHub
A user friendly project creation and fundraising app inspired by Kickstarter
- Integrates Amazon Web Services and Paperclip to handle large volumes of picture uploads and uses dynamic style configuration for picture loading optimization
- Designed custom SQL queries to allow for fetching of project information optimizes for scalability
- Features dynamic search bar using PGSearch that can search for project by title or author

Beginner's Piano (Javascript, jQuery)   Link · GitHub
Browser-based game that teaches simple piano songs built using Flux
- Incorporates a recorder by creating track objects that store key information, which is sent to a store, whose change in detected by a component that registers that change to produce the notes recorded
- Produces sound using AudioContext objects that take an oscillation frequency and type to produce a node from an oscillator node and a gain node

Wrapper (Ruby)   GitHub
Uses DOM nodes to generate jQuery-like objects and jQuery-like methods
- Manipulates DOM elements using a small, light-weight library

Skills

Ruby, Ruby on Rails, JavaScript, jQuery, React.js, Flux, SQL, Git, HTML, CSS

Education

UNIVERSITY OF ROCHESTER (May 2010 – Dec 2013)
B.S. in Biochemistry
- GPA 3.77/4.0, Dean's List 7 of 7 eligible semesters, Graduated Cum Laude
- Sigma Psi Zeta Sorority, Inc.'s Vice President and JSA's Department Liaison

APP ACADEMY (Feb 2016 – April 2016)
Web development
- App Academy is a rigorous 1000-hour full-stack web development course with a 3% acceptance rate
- Covered TDD, algorithms, single-page apps, and pair-programming

Work History

REGENERON PHARMACEUTICALS, INC. (Fall 2008 – Summer 2014)
Research Intern
- Tested the effects of genetically engineered bacteria for the development of a pharmaceutical drug
- Presented research on genetic engineering for orphan diseases to be expressed in mice models for potential future therapies at Westchester Science and Engineering Fair
  - Won the Future of Medicine Award