Michael Ruan

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SKILLS

Ruby, Ruby on Rails, JavaScript, React.js, Redux, Webpack, Nodejs, HTML5, Canvas, CSS3, SQL, Python, Git

PROJECTS

Korra | Full Stack Live Site | Github

A question and answer website inspired by Quora. Built on Ruby on Rails and React with Redux

- Utilized ActiveRecord and Database Indexing to efficiently generate topics for user's questions
- Used React Quill for answer forms to allow rich text editing
- Built custom UI features such as modals and dropdown forms

Slime Air Hockey | JavaScript Game Live Site | Github

Interactive browser air hockey game built using JavaScript and Canvas

- Composed of multiple computer AI to play against
- Implemented a responsive UI menu using vanilla JavaScript DOM

Melodic Piano | JavaScript Application Live Site | Github

Browser piano app built using JavaScript Tone.js library and CSS

- Constructed a queue data structure for recording and playback features
- Used Tone.js and JavaScript event handlers to extract musical features

EDUCATION

App Academy January 2018

- Rigorous 1000 hour software development course with <3% acceptance rate
- Emphasis on algorithms, TDD, pair-programming, effective design

Stony Brook University 2015 - 2017

MS - Neuroscience

- Course Highlight: Introduction to Computational Neuroscience
- Thesis: Transcranial Direct Current Stimulation (tDCS) in Post-Stroke Working Memory Deficits

Boston University 2010 - 2014

BA - Neuroscience

- Course Highlight: Introduction to Brain Models, Introduction to Computer Science I

EXPERIENCE

Hacker-in-Residence 2018

App Academy

- Taught students how to program in Ruby

Study Coordinator 2015 - 2017

Stony Brook University Hospital (Neurology/Psychology Department)

- Conducted and assisted in creating digital neuropsychological tests for potential solutions to memory problems