

Michael Ruan

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EXPERIENCE

Hacker-in-Residence

2018

App Academy

- Taught students Object Oriented Programming in Ruby
- Aided in development environment setup for Mac and Linux

Study Coordinator

2015 - 2017

Stony Brook University Hospital (Neurology/Psychology Department)

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

EDUCATION

App Academy

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 GPA 3.78

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

Boston University

2010 - 2014

BA - Neuroscience GPA 3.79

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

SKILLS

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

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