

# John Chau

(408) 896 - 0830

[john.win.chau@gmail.com](mailto:john.win.chau@gmail.com)

[Personal Site](#)

[Github](#)

[Linkedin](#)

## SKILLS

React, Redux, Ruby, Rails, Javascript, HTML, CSS, SQL, AJAX, JQuery, JSON

## EXPERIENCE

### Programmer Analyst

*Sanmina Corp*

Dec 2017 - Aug 2019

- Designed and implemented scripts to build test coupons for printed circuit boards.
- Tested scripts and updated Oracle databases to accommodate new customer data/technology.
- Designed GUIs (Perl, C++) for front-end to tool the printed circuit boards in computer aided manufacturing programs; increasing productivity of front-end engineering so that more jobs are released, built, and sent to customers.

### Programmer

*Razor Edge Games*

Oct 2016 - Dec 2016

- Dialogue and story implementation: used rule based resolver (Javascript) to generate lines.
- The lines are stored in JSON format; the JSON is parsed using Python and turned into game objects.
- Design AI for constraint solving enemy generation, action sequence, quest progression, behavior/choice selection.
- Tested using Microsoft Unit Testing Framework for C++

## PROJECTS

**MI-IMDb: My Internet - Internet Movie Database** (Rails, ReactJS)

[Live](#) | [Github](#)

*Clone of the Internet Movie Database website aka imdb.com*

- Implemented single-page imdb with asynchronous fetching of movies, reviews, and ratings on user request so they're not staring at a loading screen.
- Incorporated Amazon Web Services Simple Cloud Storage, Ruby on Rails, and Postgresql as backend database.
- Integrated Ajax calls with RESTful routes to facilitate CRUD (create, read, update, destroy) actions on movies, reviews, ratings in the database.
- Leveraged Rails polymorphic associations with reviews and ratings on movies for DRY code

**Watchu Want?** (MongoDB, ReactJS)

[Live](#) | [Github](#)

*Web app that Integrates Yelp API to query and selects a restaurant based on user inputted preferences*

- Designed and implemented single-page web application that uses MongoDB / Express backend and React / Redux frontend
- Integrated Yelp API and Google Maps API to collect restaurant information and pinpoint them in the real world
- Designed a simple user interface that allows users to navigate the site quickly; a total of four clicks on the site can return a potential restaurant based on the user's preferences
- Restrict Yelp Api query by filtering results that are not food related and eliminating poorly rated restaurants which ensures a quick response and quality results

**Say Again?** (C#)

[Download Page](#) | [Github](#)

*Social Interaction Game*

- Designed and implemented a custom game engine written in pure C#
- Integrated a comma separated style sheet to json parser for rapid iteration of authoring process
- Implemented multi-dimensional hash of NPC responses for quick lookup time and improved user experience
- Built a dialogue manager to simulate real life interaction; it controls conversations by accepting user input and returning the appropriate NPC response

**Dance Music Dance - Music Visualizer** (p5.js, JavaScript)

[Live](#) | [Github](#)

*Analyzes Music and generates shapes based on volume, waveform, or Fast Fourier transform.*

- Integrated the p5.js library to analyze different forms of sound and produce corresponding visuals
- Built a control panel on the app for users to upload and interact with the music visualizer creating their own patterns
- Created and implemented custom math equations to interpret music at specific points in time

## EDUCATION

**BS Game Design** - University of California, Santa Cruz | 2013 - 2017

**Web Development** - App Academy | Spring 2020