

John Chau

(408) 896 - 0830

john.win.chau@gmail.com

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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 the site remains responsive while data loads in the background.
- Incorporated Amazon Web Services Simple Cloud Storage, Ruby on Rails, and Postgresql as backend where I store user account data, movie information, ratings, reviews, pictures, and video links.
- 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, Express, ReactJS, Node)

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

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

- Responsive, single page webapp that asynchronously loads data while the user explores the site
- 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#) *Social Interaction Game*

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

- 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