

John Chau

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[Personal Site](#)

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SKILLS

React, Redux, Ruby, Rails, JavaScript, HTML, CSS, SQL, NoSQL, AJAX, JQuery, JSON, MongoDB, Linux, Algorithms, Heroku, Github, Amazon Web Services S3, NodeJS, ExpressJS, RESTful API

EXPERIENCE

Programmer Analyst

Sanmina Corp

Dec 2017 - Aug 2019

- Collaborated with front-end engineers to design GUIs (Perl, C++) that are used to output or decipher manufacturing data. These tools greatly increase productivity by allowing engineers to quickly move data from the planning stages to the manufacturing stages.
- Designed and implemented scripts to build test coupons for printed circuit boards.
- Tested scripts and updated Oracle databases to accommodate new customer data/technology.

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++
- Worked remotely and had weekly meetings on Zoom where I presented major updates or changes

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