

Software Projects

Wellp - Sole Developer (Rails, React.js, Redux)

[Live](#) | [GitHub](#)

Full stack Yelp clone where users write reviews of businesses they hate

- ❑ Retrieved data with jQuery AJAX requests and multi-table query methods to optimize lookup time for search results
- ❑ Utilized the Google Maps API to display search results and redirect to business pages based on user's location of interest

Bulletter - Front End Engineer (JavaScript, FileSaver.js)

[Store](#) | [GitHub](#)

A Chrome extension for highlighting notes with integration into MS Word

- ❑ Designed algorithms to dynamically manipulate displayed content to highlight the user's notes in the browser
- ❑ Leveraged the Chrome Storage API, HTML5, and FileSaver.js to create a downloadable Word document which formats the relevant information

BandoJambo - Front End Engineer (JavaScript, HTML5)

[Live](#) | [GitHub](#)

Synthesizer built for the browser

- ❑ Implemented the Howler.js, Easel.js, and Tween.js libraries to create audio and visual content with user input

UNItconverter - Android App Developer (Java)

[Store](#) | [GitHub](#)

Unit-converter app for people who love cats

- ❑ Designed and implemented the API for a scientific unit converter
- ❑ Collaborated with a team to present cat facts through the Cat Facts API

Skills

Ruby

JavaScript

C++

Python

Java

jQuery

HTML5

RSpec

Ruby on Rails

Git

SQL

CSS

React/Redux

MATLAB

Additional Projects

Biomedical Measurements

- ❑ Designed and conducted a study to observe heart activity in response to emotional stimuli
- ❑ Developed MATLAB scripts to quantitatively analyze electrocardiogram data

Biomedical Capstone Project

- ❑ Built an autoclave for low-resource settings by utilizing local resources such as discarded electronics, mainly plasma cutter components

Professional Experience

Center for Translational Cognitive Neuroscience

Boston, MA: Summer 2015

Research Assistant

- ❑ Developed MATLAB scripts to analyze electroencephalography data and detect markers for long-term learning
- ❑ Adapted these MATLAB scripts to allow other researchers to analyze data, drastically reducing the amount of time between obtaining data and results

Education

Boston University, May 2016

- ❑ BS in Biomedical Engineering, GPA 3.54, Cum Laude, Presidential Scholar
- ❑ Member of Tau Beta Pi and Alpha Eta Mu Theta honor societies