
Professional Experience

One Codex - Software Engineer

San Francisco, CA: May 2017-Current

- ❑ Implemented data visualization tools for metagenomics research
- ❑ Built a submission portal to integrate the One Codex research platform with the National Center for Biotechnology Information Sequence Read Archive

Center for Translational Cognitive Neuroscience - Research Assistant

Boston, MA: Summer 2015

- ❑ Developed MATLAB scripts and a user interface to analyze electroencephalography data and detect markers for long-term learning and administered cognitive tests to patients

Software Projects

Wellp - Sole Developer (Rails, React, 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

- ❑ Dynamically manipulated browser content to highlight the user's notes
- ❑ Leveraged the Chrome Storage API, XML, 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 in response to user input

UNITconverter - Android App Developer (Java)

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

Unit-converter application 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/Rails

Python/Flask

React/Redux

JavaScript

C++

Java

jQuery

HTML5/CSS

Nightwatch.js

RSpec/Pytest

MATLAB

SQL

Git

Additional Projects

Biomedical Capstone Project

- ❑ Used oscilloscopes, multimeters, and discarded electronics to prototype an autoclave for low-resource settings comprised of local resources

Biomedical Measurements

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

Education & Involvement

Boston University, May 2016

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

Engineers Without Borders SF Professional Chapter, Team Nicaragua - Fundraising Lead