

Professional Experience

One Codex - Software Engineer

San Francisco, CA: May 2017-Current

- ❑ Implemented metagenomic diversity tools for our Python client library and built new search functionality on our web application so users can make more precise searches
- ❑ Currently building infrastructure for an application that allows users to search public microbial DNA sequences and store proprietary ones

Center for Translational Cognitive Neuroscience - Research Assistant

Boston, MA: Summer 2015

- ❑ Developed a MATLAB script and user interface to analyze electroencephalography data and detect markers for long-term learning

Software Projects

Wellp - Ruby/Rails, React, Redux, PostgreSQL

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

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

- ❑ Used jQuery AJAX requests to store user reviews and ratings for businesses
- ❑ Utilized the Google Maps API to display search results and redirect to business pages based on user's location of interest

Bulletter - JavaScript

[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, and XML to create a downloadable Word document which formats the relevant information

BandoJambo - 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 - Java

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

Unit-converter Android 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

Python/Flask

GraphQL

React

JavaScript

HTML5/CSS

Nightwatch.js

Pytest/RSpec

SQL

Git

C++

Java

MATLAB

Additional Projects

Biomedical Capstone Project

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

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 Chair

- ❑ Developed a [Yelp scraper](#) to search reviews for keywords and discover collaboration opportunities with local businesses