

Experience

Software Engineering Intern - NASA/JPL (June 2015 - August 2015)

- Member of the Orbital Carbon Observatory's Science Data Operations Systems team.
- Developed and deployed a realtime data visualization platform using Elasticsearch, Kibana, and Logstash to monitor logs produced from their telemetry data processing pipeline.

Undergraduate Researcher - UC Berkeley (September 2014 - May 2015)

- Member of the Bribecaster research group sponsored by the CS & Public Policy Department.
- Coordinated research project with Professor Jennifer Bussell of Berkeley's Public Policy Department to create a dashboard interface that tracked government corruption in India.

CS61BL Lab Assistant - UC Berkeley (June 2014 - August 2014)

- Provided course instruction, assisted students, and graded assignments during labs in Berkeley's data structures class.
- Created web application to help students learn the insertion, deletion, and search methods of popular tree data structures through animation done in D3.

Cofounder - California Records (May 2013 - March 2015)

- Founded an independent record label with two other Berkeley students and managed bookings and production sessions.
- Youtube channel (<https://www.youtube.com/c/CaliforniaRecords>) has recorded 250,000 views and 1,700 subscribers.

Education

University of California, Berkeley (Class of 2017)

B.A. in Computer Science & Statistics - 3.2 GPA

Relevant Coursework: CS61A (Python), CS61B (Java/Data Structures), CS61C (C/MIPS/Machine Architecture), CS70 (Discrete Math & Probability), CS164 (Compilers & Programming Languages), CS188 (Artificial Intelligence), CS170 (Algorithms), CS162 (Operating Systems)

Skills

Proficient in: Python, Django, HTML, CSS, Javascript, jQuery, Java, Android

Experience in: C, C#, SQL, Elasticsearch, Logstash

Projects

SeedIt (<http://getseedit.com>)

- Led the development of the application of an Android gardening application for the Citris Mobile App Challenge.
- Developed the backend models for the app's plant database and designing the app's user interface.
- Built system to generate customized recommendations based on location, time, and weather to optimize their harvest.

Bribecaster (<http://github.com/jeffzheng1/Bribecaster>)

- Created back-end models for storing citizen data and a dashboard interface with various data visualization packages.
- Programmed a communications network using Twilio to send robocalls and SMS messages to collect citizen information.

Festiv (<http://festiv.me>)

- Developed web application that uses SoundCloud's API to deliver dance music to users without the hassle of searching for it by using curated playlists and learning user preferences.
- Deployed the site using Django and MySQL.

Algovision & the 164 Language (<http://github.com/jeffzheng1/algovision>)

- Built web application to visualize the call stack of algorithms written in 164, an object oriented computer language my team created throughout the Fall 2014 semester.
- Used the Wolfram API to analyze the approximate runtime of a function from the structure of the call stack and plots the runtime function on a graph.