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# JAMES W. HUANG

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## PROJECTS

**Code Clicker (Beta)** - Front End & Design Lead - I designed all of the vector assets in Sketch and created the visual GUI. I also worked on implementing fragments, buttons, and created the animations and views required for the application to run smoothly. This included architecting the layout of the application.

**CatChat** - This was a web application that was created with Ruby on Rails. It has a login linked with a SQL database that stores messages that are associated with individual users. The application was deployed using Heroku and can be seen at [weiluen.herokuapp.com](http://weiluen.herokuapp.com)

**CS312 Wisdom Ball** - Created a magic 8-ball with animations for Android that can be downloaded to the [Play Store](#). The application has a custom java file to detect a shake event from the accelerometer.

[www.weiluen.com](http://www.weiluen.com) - Created a personal website that has a jQuery Mobile version and customized PHP caching for increased speed on page loads. The page also incorporates bootstrap and a Wordpress backend.

## SKILLS

**Work:** HTML5, XML, CSS3, Bootstrap, jQuery, javascript, Java, Ruby (RoR), Python, PHP, Hadoop, Mongo DB, SQL, R, OS X, Linux, Android Studio, iOS, Sketch, Adobe Illustrator, Adobe Photoshop, VBA Macros, Affymetrix Software, GO (Gene Ontology) Analysis, Version Control ([GitHub](#)).

**Languages:** English, Chinese (Mandarin), Thai (US Government LPI - Intermediate-High)

## EXPERIENCE

### COMMUNITY ORGANIZER & TEACHER COLLABORATOR, US PEACE CORPS 2012-2014

I worked as a Peace Corps volunteer on the [border](#) of Thailand and Cambodia. I taught computer maintenance and raised 6000 Baht (US \$200) for the implementation of a homework server with offline wikipedia functionality using a Raspberry Pi running off of a homemade UPS (Uninterruptible Power Supply). This solution provided 3g internet connectivity during frequent power outages. I also restored network functionality and migrated ~80 computers from pirated Windows XP over to Ubuntu. Additionally, I secured funding for an updated computer lab and created a modern web portal for Aranyaphratet High School.

### DATA ANALYST, ROUX LABORATORY; AUSTIN, TX – 2008-2012

I worked as a data analyst for the Roux laboratory at the University of Texas at Austin. This involved writing custom programs that would calculate the number of gene matches between different *Arabidopsis thaliana* plants. From these matches, I would perform gene ontology analysis and used a hypergeometric function to calculate the likelihood of a gene match based on random chance. This work resulted in a publication.

## EDUCATION

### UNIVERSITY OF TEXAS - AUSTIN, TEXAS

COMPUTER SCIENCE & BIOLOGY - EXPECTED GRADUATION DECEMBER 2017

## PUBLICATIONS

Lim, M., Wu, J., Yao, J., Gallardo, I., Dugger, J., Webb, L., Huang, J., Salmi, M., Song, J., Clark, G., Roux, S. (2014). Apyrase Suppression Raises Extracellular ATP Levels and Induces Gene Expression and Cell Wall Changes Characteristic of Stress Responses. *Plant Physiology*, 164(4), 2054-2067. doi: <http://dx.doi.org/10.1104/pp.113.233429>