

# Hua-Ying(Dean) Tsai

Website : <http://huaying.github.io/>

Email : [huayingt@usc.edu](mailto:huayingt@usc.edu)

## Education

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<b>University of Southern California</b> MS, Computer Science, GPA 3.92	2016
<b>National Chiao Tung University, Taiwan</b> BS, Computer Science, GPA 3.6	2011

## Technical Skills

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Programming Experience: **Python, Java, C++, C**

Web Experience: **HTML, Javascript, CSS, jQuery, Bootstrap**, PHP, NodeJS, Express, React,

iOS Experience: Swift, SpriteKit

Database Experience: **MySQL**, Firebase(NoSQL), SQLite, Spatial SQL, xquery and xpath

Others: **Linux, Vim**

## Work Experiences

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**API Engineer, [Yahoo Search Marketing](#), Yahoo Taiwan** Sep 2012 – Oct 2013

- Developed a suite of products for advertising solutions with web tech, mainly focused on Keyword Ads.
- Developed an advertising platform [SOEASY](#) (like Yellow Page).
- Developed systems to support advertisement analysis and management for internal use (account management tool, revenue dashboard, ads uploader, etc).
- Provided technical consultations for customers and resellers.

**Web Developer, USC** Fall 2014

- Built the [website](#) of USC Club of Private Equity and Venture Capital.

## Project Experiences

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**[Faceoff](#), Mobile Game on iOS** Fall 2015 - Present

- Developed a two-player fighting game with Swift, SpriteKit and Bluetooth technology, which was invited to the GamePipe Showcase 2015.
- Combined the photo taking feature into the game as characters of gamers.

**[Weapon Market Search Engine Experiment](#)** Fall 2015

- Crawled websites to collect over 1M weapon data with Tika and Nutch, indexed and ranked weapon data with Solr, and analysed and visualised weapon data with Banana and D3.

**[Multimedia Search Engine](#)** Spring 2015

- Built a multimedia search engine with Java and JavaFx.
- Searched matched videos in accordance to the similarity in color, motion and sound.

**Zillow Search, Android App** Fall 2014

- Implement an Houses Search App with Java, AWS, php, and **Zillow api**, which users can search houses by area, address, prices, years and etc.

**[USCLife Prototype](#)** Spring 2011

- Developed a prototype mobile app-like website with jQuery-Mobile.
- Designed a mobile application collecting events around USC to promote USC Students involvement.