

Hua-Ying(Dean) Tsai

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Education

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

Technical Skills

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

API Engineer, Yahoo Search Marketing, Yahoo Taiwan	Sep 2012 – Oct 2013
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- Built the website of USC Club of Private Equity and Venture Capital.	

Project Experiences

Faceoff, Mobile Game on iOS	Fall 2015 - Present
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- Developed a prototype mobile app-like website with jQuery-Mobile.- Designed a mobile application collecting events around USC to promote USC Students involvement.	