Hua-Ying Tsai

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Location: Bay Area

[Education]

University of Southern California   2016
MS, Computer Science, GPA 3.92

National Chiao Tung University, Taiwan   2011
BS, Computer Science, GPA 3.6

[Technical Skills]

Programming Experience: Python, Java, C++, C
Web and Mobile Experience: LAMP, NodeJS, ExpressJs, React, JQuery, Bootstrap, Semantic-UI, Swift, SpriteKit
Database Experience: MySQL, MongoDB, Firebase, SQLite, Spatial SQL
Others: Linux, Vim

[Work Experiences]

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]

GeoPixnet   Present

- Curated website that geo-searches content introducing restaurants/food/etc.
- Collected over 100,000 geocoded data from **pixnet.net** using Python, Scrapy and Google geocode API.
- Worked with Node, ExpressJs, Gulp, MongoDB, Docker on the backend, and worked with React, Semantic-UI on the frontend.

Faceoff, Mobile Game on iOS   Fall 2015

- 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.

USCLife Prototype   Fall 2014

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

See more: http://huaying.github.io/