

Yen-Hsuan Chen (Terry)

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EDUCATION

- University of Southern California, Los Angeles, CA** Aug. 2016 – May. 2018
M.S. in Computer Science (GPA: 3.77/4.0, Expected graduation: May 2018)
Courses: Web Technology, Database, Computer Network, Algorithm, JAVA OOP, Artificial Intelligence and Mobile Game Design.
- National Chiao Tung University (NCTU), Hsin-Chiu, Taiwan**
M.S. in Electrical Control Engineering (GPA: 4.3/4.3 with Honors) Sep. 2011 – Jun. 2013
B.S. in Electronic and Computer Engineering (GPA: 3.93/4.3 with Honors) Sep. 2007 – Jun. 2011

TECHNICAL SKILLS

- **Languages:** JavaScript(ES5/ES6), Java, Python, C/C++, HTML5/CSS3, Sass, Typescript, PHP, SQL, Swift.
- **Frameworks:** Angular, React.js, React-redux, AngularJS, Express.js, Socket.io, Bootstrap.
- **Platforms & Tools:** Node.js, Redis, MongoDB, PostgreSQL, RabbitMQ, Apache, NginX, Docker, Chrome DevTools, Git, AWS.

WORK EXPERIENCE

- Software Engineer Intern(FullStack)** Jun. 2017 – Jul. 2017
Jibao
 - Developed education-learning-card generator service that integrates Google Knowledge API, Pixabay Image API, and Wikipedia API by using **React.js**, **React-redux**, **Node.js**, **Keystone.js** and **AWS**.
 - Implemented web notification push system supporting real-time delivery of messages to users by using **Web socket**, **polling** **Ajax**, **RESTful API**, **Node.js** and **MongoDB**.
- Research Intern** Jun. 2010 – Aug. 2013
Brain Research Center, National Chiao Tung University
 - Collaborated with U.S. Army Research Lab to developed real-time drowsy driver monitoring and prevention system detecting drowsy drivers, using wireless wearable electroencephalogram (EEG) devices that integrate with **Android** platform.
 - Designed virtual reality experimental environments, acquired EEG data, and implemented drowsiness estimation system by using **SVM** learning models with high prediction accuracy (~93%).
 - Built signal processing and noise-cancellation software for wireless EEG devices based on **PCA**, **ICA** algorithm using **Java**.
 - Published research article in IEEE Transactions on Biomedical Circuits and Systems.

PROJECTS

- Collaborative Docs** July. 2017 – Nov. 2017
 - Built single page application with **Angular** and **Bootstrap**, which supports users to create documents and work together.
 - Designed a chat panel allowing users to communicate in real-time (**Node.js**, **Express.js** and **Websocket**).
 - Implemented collaborative document editor with **Quill.js** and **Socket.io** that support users to edit text, insert images, and embed online videos in documents.
 - Built online document storage service by using **RESTful API**, **Node.js**, and **MongoDB**, and deployed the project on **AWS EC2**.
- Top News - News Scraper and Classifier** Apr. 2017 – Aug. 2017
 - Built a single page application based on **React.js** and **Node.js** for users to read latest news, and deployed the projects on **AWS**.
 - Designed a data pipeline that can monitor and scrape news from different news websites (**RabbitMQ**, **Redis**, and **MongoDB**).
 - Implemented **SVM** and **Naïve Bayes** classifier using **NLTK** to train News Aggregator Data Set (from UCI ML Repository), and created an online classifying service for news topic modeling.
 - Built a user-click event processor (**Python RPC server**) collecting users' click behaviors and update news preference for users.
- Google Chrome Extension - Productive Start Page** Jul. 2017 – Sep. 2017
 - Implemented an elegant speed-dial tab extension supporting users to get instant access to websites and chrome services.
 - Built customizable UI integrating shortcuts, bookmarks and apps based on **Angular**, **Semantic UI** and **Google Chrome API**.
- Online Code Judge System** Apr. 2017 – Jun. 2017
 - Implemented web-based collaborative coding system on **AWS**, which allows users to create/join private coding room, to execute **Java/C++/Python** codes online, and to edit codes simultaneously.
 - Built source code executor which compile and execute user's code. (**Docker**, **Python-Flask**).
 - Developed single-page web application for login, online coding editor, and user interface by using **Angular** and **Socket.io**.
 - Designed **RESTful API** to transmit results of compiled user codes between client web apps and **Node.js** server.
- Facebook Search Tool** Feb. 2017 – Apr. 2017
 - Implemented single page application to perform Facebook search based on **AngularJS** framework.
 - Designed **RESTful APIs** to transmit query and search results using **PHP** and **FB Graph APIs**.
 - Built **iOS client application** for mobile users by using **SWIFT**.
 - Developed **responsive search UI** using **jQuery/Bootstrap** and deployed website on **Elastic Beanstalk (AWS)**.