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Hongzhao Zhu

Personal Webpage: https://huntingzhu.github.io/

Github: https://github.com/huntingzhu

EDUCATION

University of Southern California, Los Angeles, USA   Aug. 2016 - May 2018 (Expected)

- Master of Science in **Computer Science** (GPA:3.7 / 4.0)
- Major Courses: Algorithm Design, Programming Systems, Computer Network, Web Techs

University of Electronic Science and Technology of China, Chengdu, CHINA   Sept. 2012 - June 2016

- Bachelor of Engineering in **Communication Engineering** (GPA: 3.84 / 4.0**)**
- Major Courses: TCP / IP, Data Structure, Digital Signal Processing, Communication Theory

INDEPENDENT PROJECTS

Online Notes App (Webpage link: http://hunting.thecompletewebhosting.com/noteapp/)   02 / 2017

- **A Responsive web app designed with Bootstrap and PHP.**
- This Notes app allows users to sign up and log in, then users can store and update their private notes and profiles. The functions and styles of frontend page are designed with using ***Bootstrap and jQuery***, and the backend software is coded with *PHP*. Users' data are stored in *MySQL database*.

Facebook Search (Webpage link: http://sample-env.samqhdps4g.us-west-2.elasticbeanstalk.com/)   02 / 2017

- **A website that can fetch the public profiles and albums of Facebook users and organizations.**
- This website allows user to input keywords to search the public profiles and albums of Facebook users, by using *PHP* to call *Facebook Graph API* and *Google Geocoding API*. The search results including recent posts and photos will be listed dynamically. And this website is deployed on *AWS platform*.

Fruit Slice Game (Webpage link: http://hunting.thecompletewebhosting.com/fruitslice/fruitslice.html)   01 / 2017

- **A webpage game developed with jQuery.**
- It's just a simple Fruit Slice game but with various animation effects. When cursor hovers over rotating fruits, the fruits will "explode"! Of course, user can choose appropriate level of the difficulty to have fun with it.

Article Auto-generating Program (Github link: https://github.com/huntingzhu/GenText)   11 / 2016

- **A command-line based program written in java.**
- User can input source text file by command-line arguments as the source text. Then the program will generate some text like written by human according to the frequencies of occurrences of words and their context in the source text.

Distributed-Computing Model   10 / 2016

- **Unix socket program using C/C++.**
- Implement a model of computational offloading where a single client offloads some computation to a central server which in turn distribute the load over 3 backend servers through TCP and UDP.

RESEARCH EXPERIENCES

Module Design of the Residue Number System based on Algebraic Integer Quantization   11 / 2015 – 04 / 2016

- Designed RNS modules based on algebraic integer quantization and verified these modules with MATLAB

Terahertz Spectroscopy of Organic Materials in Plants   08 / 2014 – 05 / 2015

- Coauthor of the paper ***"Morphologies, compositions and spectrum features of palm leaves",*** which is published in ***Chinese Journal of Physics, 2015 Vol.64 (6)***

SKILLS

Programming Languages:	Java, JavaScript, PHP, C/C++, python, MATLAB
Web Techs:	NodeJS, Express, Angular 2, jQuery, Bootstrap, HTML/CSS, AJAX
Databases:	MySQL, MongoDB, SQLite
Tools	git, npm, vim