

CHI-I HUANG (JASON)

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RESEARCH INTERESTS

- Educational Game, Gamification
- Data Mining, Bid Data

EDUCATION

MOOC

Jan. 2015 - Jul. 2015

- Introduction to Big Data with Apache Spark, BerkeleyX, final grade: 100%, June - July 2015
- Design and Development of Games for Learning, MITx, final grade: 92%, Apr - June 2015
- Mining Massive Datasets, Stanford University, 98.7% with Distinction
- Gamification, University of Pennsylvania, 95.8%
- Pattern Discovery in Data Mining, University of Illinois at Urbana-Champaign, 88.2%

National Taiwan University

Sep. 2009 - Jul. 2013

- B.S. in Computer Science & Information Engineering
- Overall GPA: 3.79/4.0, major GPA: 3.93/4.0
- Relevant Coursework: Machine Learning, Multimedia Analysis and Indexing, Data Structures and Algorithms, Cryptography, Compiler Design, Formal Languages and Automata Theory

EXPERIENCE

Wavenet Tech Inc., Taipei, Taiwan

02/2015 - present

Full-stack Node.js backend engineer

- Developed multi-threading non-blocking IO web service for Real-time bidding.
- Built Real-time bidding platform 99% requests responded under 100ms with QPS 1000
- Optimized and maintained reporting system which calculates bidding insights 10 Million data per day.
- Data Analysis via Apache Spark & Hadoop Multi-node cluster.
- Designed conversion contribution calculation kernel.
- Designed cookie tracking pixels and entity resolution.
- Built testing framework for code quality via Mocha.
- Deployed alert manager for node failure detection.

Republic of China Air Force, Taiwan

06/2013 - 05/2014

Orderly, Mandatory Military Service

- Provided group commander with private administrative and clerical aid.

InfoKeyVault Tech, Taipei, Taiwan

07/2011 - 08/2011

Programmer, Intern

- Analyzed endurance of security USB tokens after executing encryptions and decryptions over 1,000,000+ times via Visual Studio
- Cooperated with electronic commerce company on a Java gift card system project

SELECTED PROJECTS

Crazy Fruit Market

04/2015 - 06/2015

Advanced Vocabulary Learning Game

- Course project on MITx: 11.127x Design and Development of Games for Learning
- Facilitated the learning process of ESL learners for advanced English vocabularies.
- Capable of playing the game on cross-device play via HTML5 touch event.
- Facilitated deployment process by containerizing the project into Docker image.
- Build up a game development chain, from art design, educational material design to software engineering.
- Cocos2d-js, JavaScript, GIMP, Docker

Face Annotation

07/2012 - 06/2013

undergraduate project

- Face Annotation is a concurrent web-based tool for annotating 4,000+ facial data simultaneously.
- Provided significant data in Hao-Ting Chang's masters thesis, Context-augmented profile face attributes detection.
- Developed online visual marker to mark face and eyes positions via JavaScript and HTML5.
- Created documentation website guiding users installation, configuration and customizing their own facial data annotating website.

Eventy

05/2012 - 12/2012

startup

- Eventy was a social network service (SNS), which attracted nearly 200 users in 2 weeks.
- Activated Chinese indexing in search engine via Chinese segments algorithm within Coreseek.
- Achieved real time index update, which updates index in every 5 minutes.

Machine Learning Class Competition

11/2012 - 01/2013

team project

- Predicted with accuracy of 74.2% from 90,000 72-dimensional missing value data.
- Improved ranking from 46th to 37th by adapting new method to fill missing data via Amelia.
- Improved ranking from 37th to 30th by utilizing k-NN learning algorithm.
- Analyzed performance of several algorithms, such as LIBLINEAR, LIBSVM and k-NN.

PROGRAMMING SKILLS AND TOOLS

- Experienced: Node.js, MongoDB, C, Java, Python, JavaScript, Docker
- Languages: English (fluent), Japanese (basic), Chinese (native)
- Standardized Tests: GRE(V160, Q167, AWA3.5), TOEFL(107), TOEIC (885)