KUAN-CHUN DAVID CHENG

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EDUCATION

University of Michigan School of Information, Ann Arbor MI — April 2016
- Master of Science in Information, GPA: 3.75
- Specialization: Human Computer Interaction, Information Analysis and Retrieval
- Second place in 2014 Barracuda UM Programming Contest

National Cheng Kung University, Taiwan — August 2013
Master of Science in Computer Science, GPA: 4.0
- Research focus: Machine Learning, Speech Recognition.
- Graduated with Second Best Thesis Award

National Taiwan University, Taiwan — June 2008
Bachelor of Science In Mathematics

PROJECT EXPERIENCE

NTVB Media, Troy, MI — 1/2015 - Current
Mobile App Developer, Multidisciplinary Design Program
- Design and developed Android App with TV show recommendation and Quiz game features for NTVB Media

PROFESSIONAL EXPERIENCE

The University of Michigan, Ann Arbor, MI — 2/2014 - Current
Web Developer, College of Architecture and Urban Planning
- Developed a website using Google Direction API that can help urban planners identify the delayed intersections of a route and the total delay time

ASUS Computer Inc. Taiwan — 4/2014-7/2014
Software Engineer, Advanced Technology Division
- Co-built a spoken language understanding system which understands user dialog, included word segmentation, semantic tagging, intention extraction, dictation and clarification
- Designed and developed efficient correction algorithms for word errors from Google Voice result and Asus speech recognizer result on Android platform
- Coordinated and cooperated the key functions with speech and NLP team

National Cheng Kung University, Taiwan — 2/2011-7/2013
Graduate Research Associate, Speech Processing Lab
- Analyzed speech data set; designed and developed algorithm to recognize the emotional state from speech sentences
- Improved the emotion recognition accuracy from 68% to 83% and professional in machine learning
- Designed and developed a bilingual speech recognition system using HTK toolkit, which reached a highest performance among the state-of-the-art approaches
- Edited the technical manual and provided technical training for new lab members

EXPERTISE

- Web App Development
- Mobile App Development
- Database Design
- Information Visualization
- Data Analytics
- Machine Learning
- Interaction Design
- User Experience Design

PROGRAMMING

C/C++ · Java · Objective-C
Python· HTML · CSS
Javascript · PHP · SQL

UX

- Affinity Diagramming
- Usability Testing
- Heuristic Evaluation
- Storyboarding
- Rapid Prototyping
- Wireframing

SOFTWARE

Operating System
Mac OS · Linux · Windows

Development
Xcode · Android Studio ·
Vim · Ecllipse · Git
Visual Studio

Statistical Package
Matlab · R

SELECTED COURSES

- Data Manipulation
- Data Analysis
- Database Design
- Information Visualization
- Machine Learning
- Information Retrieval
- Data Mining
- Data Structure/Algorithm
- Interaction Design
- Contextual Inquiry
- Usability Evaluation