# 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
- Specialization: Human Computer Interaction, Information Analysis and Retrieval
- GPA: 3.75

**National Cheng Kung University,** Taiwan    August 2013
Master of Science in Computer Science
- Research focus: Machine Learning, Speech Recognition.
- GPA: 4.0; 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
- Managed and maintained the current code base of NTVB's iOS app
- Design and developed Android App with new social media features
- Manipulated and analyzed the large datasets from social media site for content recommendation

## PROFESSIONAL EXPERIENCE

**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

## HONORS

2014 Second Place in Barracuda UM Programming Contest
2013 Second Best Thesis Award of ACLCLP Conference

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

## PROGRAMMING
C · C++ · Java · Swift
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
- Interaction Design
- Data Manipulation
- Data Analysis
- Contextual Inquiry
- Usability Evaluation
- Database Design
- Information Visualization
- Machine Learning
- Information Retrieval
- Data Mining
- Data Structure/Algorithm