

# CHUNG YI KAO

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Hsinchu Taiwan  
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## EDUCATION

*Master of Computer Science*, National Tsing Hua University, Taiwan. Sept. 2015  
*Bachelor of Computer Science*, National Chung Cheng University, Taiwan. Sept. 2013

## EXPERIENCE

**Senior Software Engineer** Mstar Semiconductor Jan. 2016 - Sept. 2016  
Hsinchu, Taiwan

- Android smart TV division
- Implement image loader for product line. (Reactive programming)
- Auto translation program for multi-language string table (speed up development)
- SHARP Smart TV Project
- enhance terminal development

**iOS Development Engineer** Industrial Technology Research Institute July 2013 - Sept. 2015  
Hsinchu, Taiwan

- Develop client side App(iOS) of Smart Cold Chain Logistics System<sup>1</sup>.
- Design a lightweight algorithm of detection about status of container on embedded platform.

**Android Development Engineer** KerjaDulu Nov. 2014 - July 2015  
Taipei, Taiwan

- Develop KerjaDulu App: SQL Lite, UI effect

## TECHNICAL SKILLS

- **Program Language:** Python, Java, JavaScript, C++
- **Framework:** Node.js, Jade, Less.js, PhoneGap, Matplotlib, SQL, MongoDB, OpenCV
- **Software Engineering:** UML, Design Pattern, OOP
- **Math:** probability, machine learning
- **English:** TOEIC 840 pts.

## HONORS AND AWARDS

Won **Qualcomm award** in Mobileheroes<sup>2</sup>, *Book Finder*<sup>3</sup> 2012  
Won **Excellent work** in ICT Innovative Services<sup>4</sup>, *Touch Projector*<sup>5</sup> 2012

## PROJECT

- EcoSim: A Smartphone-Based Sensor-Node Simulator with Native Sensor and Protocol-Stack Emulation<sup>6</sup>
- Gesture recognition with IoT platform based on triaxial acceleration<sup>7</sup> 2015
- use Machine Learning to hack CAPTCHA<sup>8</sup>
- Voice Recognition and Correction<sup>9</sup>

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<sup>1</sup>Paper <http://www.ece.uci.edu/~chou/pdf/chou-ithings14container2.pdf>

<sup>2</sup>MobileHeros [https://www.mobilehero.com/component/k2/item/209-a2012\\_11-10.html?Itemid=196](https://www.mobilehero.com/component/k2/item/209-a2012_11-10.html?Itemid=196)

<sup>3</sup>Book Finder [https://www.youtube.com/watch?v=BvLKtrgq\\_yw](https://www.youtube.com/watch?v=BvLKtrgq_yw)

<sup>4</sup>ICT <http://innoserve.tca.org.tw/en/index.aspx>

<sup>5</sup>Touch Projector <https://www.youtube.com/watch?v=nt4eUAXqXyk>

<sup>6</sup>EcoSim <https://www.youtube.com/watch?v=1UUCqf0pjM0>

<sup>7</sup>Gesture recognition <https://www.youtube.com/watch?v=VInyJABrmPo>

<sup>8</sup>Hack CAPTCHA <https://www.youtube.com/watch?v=9ovWzIu1zy8>

<sup>9</sup>Voice Recognition and Correction <https://www.youtube.com/watch?v=xZo-bpWrYlk>