

## SUMMARY

A technophile with the passion of using computer science knowledge to improve the quality of work and life.

## SKILL

- iOS and Android app development: Java, Swift, Objective-C
- Backend development: Node.js, JavaScript, SQL, MongoDB
- Keras machine learning framework: Python

## EXPERIENCE

### Mandatory Service

Sept. 2016 - July 2017

### Emergency Services Command Center Engineer

Yulin, Taiwan

- Implemented the voice-typing system integrated into emergency command system.(100s to 20s)
- Implemented a human resource assistant ERP system and login App.(3 days to 1 day)
- Implemented a hacking CAPTCHA program for login.

### Mstar Semiconductor

Jan. 2016 - Sept. 2016

### Senior Software Engineer

Hsinchu, Taiwan

- Developed Android system stack for smart TV (Binder, service)
- Implemented electronic program guide application.
- Implemented an automatic tool for multi-language translation (Improved developing efficiency: 5hs to 1s)
- Implemented logger.(Increased debugging efficiency from 10mins to 5s)
- UML code injection.(Runtime sequence diagram for debugging)

### Industrial Technology Research Institute

July 2013 - Sept. 2015

### iOS Development Engineer (Intern)

Hsinchu, Taiwan

Smart Insulating Container with Anti-Theft Features by M2M Tracking in Proc. 2014 IEEE (iThings 2014)

- Implemented iOS monitor application, logging system, backend system for a cold-chain logistics system.
- Recognition algorithm for anti-theft.

### KerjaDulu

Nov. 2014 - July 2015

### Android Development Engineer(part-time)

Taipei, Taiwan

- [KerjaDulu Human Resource App](#): Project Starter, OOP Design, UI effect, SQLite, RESTful API

### Campus Library

Nov. 2010 - July 2013

### MIS engineer of library services (part-time)

Chaiyi, Taiwan

- Implemented Book Finder Android App to locate books
- Implemented assistant tools of library services
- Maintained Library Services and System server

## HONORS AND AWARDS

Qualcomm award in [MobileHeros](#), [Book Finder](#)

2012

Excellent work in [ICT](#) Innovative Services, [Touch Projector](#)

2012

## EDUCATION

Master of Computer Science, National Tsing Hua University, Taiwan.

Sept. 2015

Thesis: EcoSim: A Smartphone-Based Sensor-Node Simulator with Native Sensor and Protocol-Stack Emulation

## PROJECT

- Smart Leave System (Alternative Military Service)
- EcoSim: A Smartphone-Based Sensor-Node Simulator with Native Sensor and Protocol-Stack Emulation
- An In-Situ Motion Measurement System for Underwater Sediments Tracking in Proc. 2014 IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2014)
- Touch projector
- Book Finder (Indoor location service of library)
- Gesture recognition with IoT platform based on triaxial acceleration
- Using Machine Learning to hack CAPTCHA
- Voice Recognition and Correction (ED algorithm)
- Make Desktop touchable with the cheap webcam
- Self-propelled Car