

CHUNG YI KAO

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SUMMARY

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

SKILL

- Python, C, Java, PHP, JavaScript
- Laravel, PostgreSQL, Tensorflow, E.L.K, Docker, Vagrant, kubernetes
- GDB, Xdebug, Valgrind, Web Cache, JVM, Embedded System
- Simulator(EcoSim), Interpreter(PHP.js), VM(JVM.py).

EXPERIENCE

Rakuten

Aug. 2018 - Current

Service Application Engineer

Tokyo

- Developed new features of service.
- Improved Development Environment and Tools.
- Migrated the service to Laravel framework.

Mandatory Service

Sept. 2016 - July 2017

Emergency Services Command Center Engineer

Yulin, Taiwan

- Implemented a human resource assistant ERP system and login App.(3 days to 1 day)
This is SPA client side render smart leave system, I use Redux.js and React.js to implement. Express.js to implement backend system and PostgreSQL to store Data. I also develop an interesting UX experience call "cell as stamp". It uses the QRCode as a method to identify personal ID(oAuth2) and make the usage of the system easier and more intuitive.

Mstar Semiconductor

Jan. 2016 - Sept. 2016

Senior Software Engineer

Hsinchu, Taiwan

- Cooperate with Amazon software team in smart TV project)
- 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 the logger.(FileBeat)
- UML code injection.(Runtime sequence diagram for debugging)

Industrial Technology Research Institute

July 2013 - Sept. 2015

Fullstack Development Engineer

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

Taipei, Taiwan

- [KerjaDulu Human Resource App](#): KerjaDulu is a human resource app which targets Indonesia labor market.
- Native android framework to build an android app.
- Node.js and PostgreSQL to build the backend system.
- E.L.K: Data Visualization.

Campus Library

Nov. 2010 - July 2013

MIS engineer of library services

Chaiyi, Taiwan

- Implemented Book Finder Android App to locate books

HONORS AND AWARDS

- IEEE Conference Paper in [VLSI-DAT](#), [EcoSim: Sensor-Node Simulator](#) 2019
- 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

- EcoSim: A Smartphone-Based Sensor-Node Simulator with Native Sensor and Protocol-Stack Emulation
- [PHP.js](#)
- [JVM.py](#)
- Using Machine Learning to hack CAPTCHA
- Voice Recognition and Correction (ED algorithm)
- Smart Leave System (Alternative Military Service)(API server, AWS, oAuth2)
- Touch projector
- Book Finder (Indoor location service of library)
- Gesture recognition with IoT platform based on triaxial acceleration