

Che-Lun Kuo

Software Engineer

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*Always trying to stay on the cutting edge of technology,
with the focus on the quality of the products I make.*

Education

- 2011–2013 **M.S., Computer Science**, *National Tsing Hua University*, Taiwan.
- Focused on Machine Learning and Face Recognition. Advisor: Roger Jang.
 - Thesis: AdaBoost Multiple Feature Selection with SVM-based Component Classifiers for Gender and Age Classification.
- 2007–2011 **B.S., Computer Science**, *National Tsing Hua University*, Taiwan.
- Joined M.I.R. Lab focusing on Audio Signal Processing and Recognition.

Work Experience

- July 2018– **Advanced Software Engineer**, *Garmin*, Taiwan.
- Oct. 2014 **Software Engineer**, *Garmin*, Taiwan.
- July 2018
- Developed Phone application with capabilities of Hands-Free Calling, Contacts Search, and Word Suggestions for automotive Linux devices.
 - Developed Notification System for automotive Linux devices.
 - Developed anxiety-reducing navigation features on 30,000+ automotive Android devices for Honda eco-friendly cars.
 - Developed TPMS (Tire Pressure Monitoring System) application on 20,000+ automotive Android devices for Toyota cars.
 - Ported a navigation software from Android to automotive Linux.
 - Designed APIs of navigation software, by using the NDK, on 300,000+ automotive Android devices for Honda Civic.
 - Maintained navigation software for 500,000+ automotive Android devices, including Kenwood, Honda, and Toyota.
 - Skills: C++, Qt, Java, Android Development, Linux Development, Python, Git, Continuous Integration.
- Sept. 2013 **Substitute Military Service**, *Directorate General of Highways, MOTC*, Taiwan.
- Aug. 2014
- Developed a salary system for the MOTC employees to sum up the hourly fees that were NT\$20,000+.
 - Developed a management system used by 30+ Kawasaki dealers in Taiwan.
 - Skills: JavaScript, PHP, SQL.
- Summer 2012 **Summer Intern**, *Trend Micro*, Taiwan.
- Ported a monitor application from iOS to mobile Web.
 - Developed a website to show location history on Google Maps.
 - Won 3CiT award (Customer, Change, Collaboration, Innovation, Trustworthiness).
 - Skills: JavaScript, PHP, SQL.

Honors & Awards

- 2nd Prize **The 8th Utechzone Machine Vision Prize**, *Utechzone*.
◦ Developed [I Know Who You Are](#). Won 2nd Prize out of 13 teams and received NT\$300,000 (~US\$10,000).
- Honorable Mention **2012 Telecom Innovation and Application Contest**, *Chunghwa Telecom*.
◦ Developed [Fanstock](#).
- 2nd Prize **2011 Telecom Innovation and Application Contest**, *Chunghwa Telecom*.
◦ Developed [TomatoShot](#). Won 2nd Prize and received NT\$150,000 (~US\$5,000).
- Honorable Mention **2011 Microsoft Imagine Cup Competition**, *Microsoft*.
◦ Developed [CarpoolMas](#), a carpooling system on Windows CE.

Projects

- Feb. 2013 **I Know Who You Are**.
–July 2013 ◦ A system for face-based recognition, including gender classification, age estimation, facial expression recognition, and face recognition. [↗](#)
◦ Skills: Matlab, Machine Learning, Face Recognition, Image Processing.
- Summer 2012 **Fanstock**.
◦ A website that visualizes the information of celebrities from the media news and the social websites into the stock market trend. [↗](#)
◦ Skills: Python, JavaScript, PHP.
- Summer 2011 **TomatoShot**.
◦ A virtual-reality and voice-controlled mobile shooting game. [↗](#)
◦ Skills: Java, Android Development, Audio Signal Processing and Recognition.
- Winter 2011 **CarpoolMas**.
◦ CarpoolMas is a carpooling system making better use of time in the sharing of car journeys by mutual aid. [↗](#)
◦ Skills: C#, Windows CE Development.

Organizations

- Oct. 2014– **Garmin Pop Dance Club**.
◦ Taught 15+ colleagues how to dance basic hip-hop.
- 2007–2011 **NTHU Pop Dance Club**.
◦ Choreographed a hip-hop dance for the end-of-term club show.

Languages

- Chinese Native or bilingual proficiency.
English Professional working proficiency.

Skills

C++, Qt, Java, Android Development, Linux Development, Matlab, Python, JavaScript, PHP, SQL, C#, Machine Learning, Git, Continuous Integration