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

Oct. 2014– **Software Engineer**, *Garmin*, Taiwan.
- 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 –Aug. 2014 **Substitute Military Service**, *Directorate General of Highways, MOTC*, Taiwan.
- 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 –July 2013	**I Know Who You Are**.
	○ 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