**Lin Yu-Ching (Aaron)**

Research Leader of KKBOX Inc.

**Job Objective**

Explore how new technologies and research methods to improve human life.

**Experience Summary**

* 1 year experience in maintaining 2G protocol
* 2 year experience in developing 4 music application products (2 shipped)
* Half year experience in developing internal statistic platform
* 1 year experience in leading a 6-person team and cooperating with 4 institutes

**Skill Inventory**

* 2 years experience on C and Python development
* Half year experience on Hadoop maintenance
* 1 year experience on Hadoop script development
* 4 years experience on Matlab development
* 4 years experience on research topics including:
  + Audio/video signal processing
  + Music classification and information retrieval

**Patent**

* W.-L. Chang, I.-B. Liao, **Y.-C. Lin**, Y.-H. Yang, and H.-H. Chen, “A genre-based two-layer structure for music emotion classification,” Taiwan patent TWI380285 (2012/12/21).

**Education**

**Master** of Electric Engineering 2007.09—2009.06

in National Taiwan University

* Studied in music information retrieval, audio signal processing
* Published 9 conference papers and 2 journal paper, including one first-author journal paper
* Master thesis: Exploiting Online Tags for Music Emotion Classification
  + Did by myself from experiment design, data collection to evaluation
  + Utilized online tags for emotion classification
  + Resolved data-imbalance problem easily found in online data

**Bachelor of Science** of Electric Engineering 2003.09—2007.06

in National Taiwan University

* Overall grade average: 83.27, overall GPA: 3.62 / 4.00

**Work Experience**

**Manager, KKBOX Inc.**

* Leader of Research Center 2012.05—now
  + Leading 5 people
  + Cooperating with 3 well-known research institutes
  + Attending international conferences in behalf of company
    - 2012 ACMMM, 2013 ISMIR
* Lead Developer of internal statistic platform 2013.11—now
  + Built the first version of internal statistic platform, focusing on listening history and user profile
  + Designing statistic tasks and user interface
  + Presented to the whole company
* Lead Developer of KKBOX Discovery function 2013.10—now
  + Built up the first version of personalization radio service based on artist similarity
  + Building the next version of personalization radio service
  + Exploiting billions of user listening history to compute artist/song similarity
  + Solving technical issues and responding questions from production team
* Lead Developer of KKBOX Radio prototype 2013.06—2013.10
  + Built up a pandora/songza-like personalized radio service
  + Ported MATLAB programs to Python programs for efficiency
  + Utilized Hadoop to solve problems involved in million songs and users
* Lead Developer of mood specific radio function 2012.05—2013.06
  + User can listen to genre/year/mood specific radio
  + Shipped in KKBOX and in Utapass (KDDI branded mobile radio service)
  + Helped PM to discuss developers and to track progress
  + Added several filtering methods to remove annoying songs
  + Expanded radio service from Japan to every served countries (Taiwan, Singapore, Malaysia, etc.)
* Lead Developer of Tap Game 2012.05—2013.01
  + Users can play any songs available in KKBOX
  + Shipped in KKBOX mobile apps
  + Developed algorithm to generate a tap-game from audio signal
  + Developed method to remove noises and detect prolonged sound

**Protocol Engineer, MediaTek**

* Developer of 2G MAC layer 2010.11—2012.03
  + Maintained and developed modules in 2G MAC layer
  + Responded to developer/customer issues

**Contact:**

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