

# Chun-Min Chang

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Self-driven software engineer with 3+ years experience developing robust code in a million-lines open source for a global company. Reduce 9x delay time in browser audio playback. Enhance music listening experience on various systems by implementing audio 5.1 in a cross-platform audio library. Sophisticated communication skills to teamwork with coworkers in different countries.

## Experience

### Software Engineer, Mozilla

Oct 2014 - Jan 2018

Firefox: media playback (C/C++, javascript)

- Reduce 9x of the delay time within a 1-second looped audio track by redesigning looping mechanism
- Correct the estimation of mp3 duration up to 100% of accuracy for constant bit-rate files
- Improve audio quality and listening experience by implementing surround sound(audio 5.1/7.1) on various platforms(Windows, OSX, Linux)

Firefox OS (C/C++, javascript)

- Ensure security of data transmission between FxOS TV and the TV controller on Fx Android by building a secure channel over TLS in local network
- Enable users to cast webpages to FxOS TV and Chromecast from Fx desktop by building a system add-on
- Integrate input-methods with physical keyboard so as to work on FxOS phone

## Education

### M.S. in Computer Science, National Tsing-Hua University

Sep 2012 - Jul 2014

Embedded Platform Lab (C, python, javascript)

Thesis: Collaborative Tracking using Encounter Information by Particle Filtering

### B.S. in Computer Science, National Tsing-Hua University

Sep 2008 - Jun 2012

Third Prize, CS project contest for senior students

ThirdEye - Remote controllable Wifi webcam car (C, PHP, javascript)

## Skills

Programming: C/C++, javascript

Language: Mandarin(native), English(TOEIC 905/990)

## Activities

- Built an interactive choosing program on an MV for users to have different results based on their choices. (javascript) Nov 2016
- Built web services such as online dating and course ranking system, which attracted 2000+/6000+ students in one day and 50000+ users in 3 months after it's reported by TV, news, and magazines. (PHP, javascript) Jun 2012 - Sep 2013
- As the head for both guitar club and co-musical clubs and the brain for activity planning for over 10+ camps Oct 2008 - Jun 2011
- Math/Science/Guitar volunteer teacher in halfway houses Feb 2009 - Jun 2009, Sep 2010 - Jan 2011