

Tim Guan-tin Chien

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Eligible to work in the United States and Taiwan

SUMMARY

A software engineer with more than a decade of fundamental knowledge on browsers, JavaScript, and the Web. Experienced in technical leadership and distributed teamwork. Top JavaScript engineer in Taiwan as measured by GitHub activities.

TECHNICAL SKILLS

- **Strong:** Web front-end performance, Mobile Web development, JavaScript/ES6, CSS, HTML, Git, GNU Make.
- **Knowledgeable:** Project leadership & communication, Continuous integration & testing, Linux shell, HTTP, PHP, browser compatibility, WordPress customization.

WORK EXPERIENCE

Engineering Manager, Mozilla Firefox, Taipei

May 2013 – Present

- Grew the team eventually representing 1/3 of Firefox OS front-end engineering. Led the team transition to Firefox in 2016.
- Stayed hands-on. Recognized as a Firefox “module peer” in Mozilla open source project.
- Grew a new team of 5 Android engineers, took on Android projects. Delivered a new mobile browser app in 4 months.

Senior Front-end Engineer, Mozilla Firefox OS, Taipei

Jul 2012 – Apr 2013

Feature and architecture planning: build system improvement, hi-res image support, third-party keyboard app framework, Input Method Web API, and vendor customization management.

Front-end Engineer, Mozilla Firefox OS, Taipei

Nov 2011 — Jun 2012

Laid the architecture foundation of Firefox OS. Built the first “Smart Zhuyin” input method.

Digital Content Engineer, Owl Publishing, Taipei

Mar 2011 – Nov 2011

PhoneGap-based eBook app for iPad. Project manager for an out-sourced iPhone app.

Research Assistant, Academia Sinica, Taipei

Sep 2010 – Feb 2011

Researched decentralized web authentication and social networks under Dr. Ching-Teng Hsiao.

NOTABLE PROJECTS

Mozilla Firefox 57 “Quantum” experience

Mar 2017 — Present

Led development of onboarding tour experience and preferences refresh. Managed 5 people.

JSZhuyin — <https://timdream.org/jszhuyin/>

Nov 2011 — Present

Sole developer of the first “Smart Zhuyin” JavaScript Chinese input method that works in 128MB-RAM low-memory environments using binary data and bitwise operations.

Mozilla Firefox OS

Nov 2011 — Dec 2015

- Was top #1 committer of the repository for 4 years. “Module co-owner” of the front-end codebase.
- Led the team to develop Settings, Keyboard, and part of the System of Firefox OS.
- Re-factored the Keyboard code base to incorporate multi-touch sequences and Emojis while keeping code size constant. Speed up keyboard cold start-up by 20%.

HTML5 Word Cloud — <https://timdream.org/wordcloud/>

2009 — Present

An HTML5 demo that incorporated text processing, Canvas2DContext API, OAuth2 integration with Google+, and Facebook API. 80k “Likes” on Facebook, two press coverages. Used Travis CI. Received occasional contributions.

EDUCATION

B. Sc., Physics, National Central University, Taoyuan, Taiwan

Jun 2009

Customized WordPress-based website, featuring physics demonstration contents and videos. Top go-to website for Physics education in Taiwan. Accumulated 328k unique visitors during its lifetime.

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