

# Tim Guan-tin Chien

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## SUMMARY

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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

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- **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

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**Staff Software Engineer**, Mozilla Firefox, Mountain View, CA Jan 2018–Present

Working on legacy code removal.

**Engineering Manager**, Mozilla Firefox, Taipei May 2013–Dec 2017

- 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

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### 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

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### 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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