

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

Mozilla Corporation (Taipei, Taiwan)

May 2013 - Present

Served as both technical leadership and people manager, worked on various features in Mozilla Firefox. Recognized as a Firefox “module peer” in the Mozilla open source project.

Grew a new team for Firefox for Android in Taipei, managing five additional Android engineers.

In 2016, led the successful transition of the team to Firefox. Previously, managed the team represented one-third of the Firefox OS front-end engineering, while actively involved in hands-on engineering.

Senior Front-end Engineer, Mozilla Firefox OS

Mozilla Corporation (Taipei, Taiwan)

July 2012 - April 2013

Became the de facto manager of the front-end team in Taipei. Worked on feature and architecture planning, such as 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

Mozilla Corporation (Taipei, Taiwan)

November 2011 - June 2012

Joined Firefox OS team as one of the first front-end engineers. Laid the foundational architecture design of Firefox OS. Built the first “Smart Zhuyin” input method in JavaScript. Hired the team in Taipei from scratch.

Digital Content Engineer

Owl Publishing, Cité Publishing Group (Taipei, Taiwan)

March 2011 - November 2011

Worked on a PhoneGap-based eBook application for iPad. Worked as a project manager for an out-sourced iPhone application project.

Research Assistant

Research Center for Information Technology Innovation, Academia Sinica (Taipei, Taiwan)

September 2010 - February 2011

Worked in the Taiwanese government research institute under Dr. Hsiao, Ching-Teng. Research topics involved decentralized web authentication technologies (OpenID, OAuth, etc.), social networks, etc.

NOTABLE PROJECTS

Mozilla Firefox 57 “Quantum” experience

March 2017 — Present

Took on front-end features that are part of refreshed Firefox 57. Worked as both technical leadership and people manager, responsible for onboarding tour experience and preferences refresh.

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

November 2011 — Present

The first “Smart Zhuyin” Chinese input method implemented in JavaScript. Data-keeping in a binary array, operating with Typed Array and bitwise operation, to guarantee performance in low-memory environments.

Mozilla Firefox OS

November 2011 — December 2015

Worked on Firefox OS front-end from the inception of the project. Maintain status of top #1 and later #2 committer of the repository.

Led the team worked on Settings, Keyboard, and part of the System of Firefox OS. Personally re-implemented the Keyboard code base for separation of modules and new interactive features, like multi-touch sequence changes, and Emoji keyboard.

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

2009 — Present

An HTML5 demonstration that process text corpus into a word list, and leverages Canvas2DContext API to layout the list into a “word cloud.” It later gained popularity and grew into a full-fledged client-side web application. Featured OAuth 2 integration with Google+ and, previously, Facebook API integration. Completed with Travis CI and test cases, receiving occasional contributions.

EDUCATION

National Central University, Taoyuan, Taiwan

B. Sc., Physics

June 2009

Built and maintained a customized WordPress-based website, featuring physics demonstration content and videos.

