

# Tim Guan-tin Chien

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Eligible to work in the United States (Legal Permanent Resident) and Taiwan (Citizenship)

## 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.

## WORK EXPERIENCE

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### 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 — the flagship desktop browser offering from Mozilla. 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 maintain 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

Joining Firefox OS team as one of the first front-end engineers. Worked with the team, laying 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

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### **Mozilla Firefox 57 “Photon” experience**

March 2017 — Present

Took on features that is part of refreshed Firefox 57. Worked as both technical leadership and people manager, responsible of 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

A HTML5 demonstration that process text corpus into words, and leverages Canvas2DContext API to layout words into a “word cloud”. It later gain 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

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### **National Central University, Taoyuan, Taiwan**

B. Sc., Physics

June 2009

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