

# Ting-Long Wei

FULL-STACK DEVELOPER

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## Summary

Full-stack developer with a solid 6+ years of experience in software engineering who masterfully combines theory and practice, focusing on web application reverse engineering, financial, and healthcare technology. Experience as a lead engineer steering transformative projects in non-tech sectors provides a unique perspective enabling substantial growth. Proficient in all facets of software engineering: frontend, backend, architecture, and security. An active contributor to open-source projects and tech communities and an innovative problem-solver, staying abreast of emerging technologies.

## Skills & Languages

<b>DevOps</b>	AWS (Intermediate), GCP (Intermediate), Git (Intermediate), Docker (Intermediate), Jenkins (Intermediate)
<b>Back-end</b>	Django (Intermediate), Flask (Intermediate), Spring Boot (Intermediate), REST API (Advanced)
<b>Front-end</b>	Angular (Advanced), Android Dev (Advanced), Swift (Intermediate), Typescript (Advanced), JS ES6 (Advanced), HTML5 (Advanced), CSS3 (Advanced)
<b>Programming Languages</b>	Python (Advanced), Java (Advanced), Node.js (Intermediate), PHP (Intermediate) Chinese (Native), English (Fluent)

## Work Experience

### Freelance

Taipei, Taiwan

FULL-STACK DEVELOPER

Apr. 2020 - Present

- Devoted to open-source software development with 200+ GitHub stars. Subtitle-Downloader achieved 1st-page Google results, 1k+ views, and 100+ clones, demonstrating widespread daily use.
- Develop custom software solutions for diverse clients, including web applications, mobile apps, and backend systems.
- Provide ongoing technical support and troubleshooting for clients, ensuring seamless functionality of software solutions.
- Facilitated the launch of online stores for small business startups, provided ongoing support, and boosted website visibility through SEO strategies. Achieved a 30% increase in organic traffic for improved online presence.

### Taipei Beitou Health Management Hospital

Taipei, Taiwan

BUSINESS LECTURER

Jun. 2021 - Jul. 2021

- Led comprehensive iOS and web application training for 20 health professionals, emphasizing expertise in Swift and utilizing the language to enhance intranet communication through iOS-based announcement platforms for e-bulletin boards.
- Focused on hands-on experience designing medical systems, API development, and database operations. Implemented Firebase for dynamic push notifications, resulting in a 20% increase in hospital staff engagement and responsiveness and contributing significantly to the overall organizational communication strategy.
- Directed the IT department in seamlessly integrating hospital systems APIs and implementing a database caching system, resulting in a 30% improvement in healthcare data retrieval efficiency and a notable enhancement in workflow.
- Cultivated a problem-solving mindset among colleagues to leverage online applications for efficient work solutions, generating a 25% reduction in troubleshooting time and boosting workflow efficiency and team productivity.

### E.SUN BANK

Taipei, Taiwan

SOFTWARE ENGINEER

Jan. 2018 - Mar. 2020

- Cooperated with IBM to lead the establishment and maintenance of a large-scale online banking system, serving millions of users and ensuring secure financial transactions.
- Incorporated PayPal API, improving payment processing speed by 20%. Created a Node.js-based API auto-conversion program that automated field validation for 100+ APIs, shortening completion time from 3 months to 1 month.
- Designed and executed a modern Content Management System (CMS) for Web-ATM using Angular 6 and Spring Boot. Introduced Continuous Integration/Continuous Deployment practices that significantly enhanced operational efficiency; the system drastically cut report generation time from half a day to 0.5 seconds.
- Standardized CMS development by converting components into a shared library, speeding up the deployment of forex trading platforms by 6 months. This strategy streamlined processes and cut time-to-market by 15%, boosting the bank's competitiveness in the fast-paced financial sector.

### College Bike

Taipei, Taiwan

SCHOOL AMBASSADOR, SOFTWARE ENGINEER

Apr. 2016 - Jun. 2016

- Conceptualized and executed marketing programs, encompassing exhibitions and test rides, to enhance brand visibility.
- Collaborated on creating a Content Management System using PHP for an e-commerce platform, delivering a 30% improvement in website performance.
- Optimized the transaction process to ensure completing each order seamlessly within a timeframe of less than 30 seconds.
- Implemented WordPress optimizations that led to a 50% increase in SEO ranking, achieving first-page visibility for targeted keywords without reliance on paid advertisements.

### National Taiwan University Hospital, Emergency Medicine Dep.

Taipei, Taiwan

SOFTWARE ENGINEER

Oct. 2014 - Mar. 2015

- Developed Android applications featuring material design principles specifically tailored for the seamless uploading of medical images.
- Implemented low-level caching on the server, resulting in a 40% improvement in service performance and a 25% reduction in database burden.
- Spearheaded the development of a medical image teaching platform aligned with the Responsive Web Design model, ensuring seamless usability for doctors across tablets, mobile phones, and computers.

## National Cheng Kung University

Tainan, Taiwan

### SOFTWARE ENGINEER

Jan. 2014 - Jun. 2014

- Designed and implemented an e-learning platform to facilitate nanotechnology education in Taiwan.
- Transitioned Flash animation to HTML5 format and embraced responsive web design principles, resulting in a 20% reduction in page loading time and a 5% rise in visitor dwell time.
- Developed the comprehensive web application logic and constructed an API server for community service.
- Applied SEO best practices to enhance website load times, leading to a 20% increase in website visits.

## Honors & Awards

2013 **Academic Excellence Awards**, National Cheng Kung University

Tainan, Taiwan

## Certificates

2018 **Basic Test on Financial Markets and Professional Ethics**, Taiwan Insurance Institute

2017 **Java SE 6**, Oracle

## Research

### The Design and Development of a Location-Based Services Group Touring System using the Mobile Social Network

Tainan, Taiwan

#### RESEARCHER & DEVELOPER

Feb. 2015 - Jan. 2016

- Developed a group navigation application that, efficiently addressed navigation applications' limitations, including repeat downloads and high energy consumption, by developing a system that uses auto-proxy for data gathering and caching mechanisms to reduce redundancy.
- Devised an innovative offline mode, enabling group navigation even under poor network conditions, and provided one member pre-downloads the vital information.
- Employed device-device multicasting technology in video streaming, which substantially reduced data transmission by over 50% and device power consumption by 20%.
- Advocated for user-friendly design that abides by Material Design principles, ensuring a successful project outcome that balances technical prowess and aesthetic appeal, abiding by Material Design principles.
- Initiated the organization of components into libraries, streamlining the project's development process and providing fellow developers with readily available tools.
- Achieved a substantial increase in user engagement by 30%, and improved overall satisfaction by 50%, as reflected in the positive comments received on the Google Play store following the implementation of design enhancements.

## Education

### National Cheng Kung University

Tainan, Taiwan

#### B.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Sep. 2012 - Jun. 2016

- Summer exchange in the Computer Science Depts. At the City University of Hong Kong (Jul. 2015)

## Extracurricular Activity

### Taipei Veterans General Hospital

Taipei, Taiwan

#### ASSISTANT, VOLUNTEER

Jun. 2017 - Dec. 2017

- Technical Troubleshooting: Proactively identified and resolved computer issues for healthcare professionals, ensuring minimal downtime and optimizing workflow efficiency.
- Patient Data Management: Spearheaded the organization and management of patient data, contributing to enhanced accuracy and accessibility. Implemented efficient data storage practices to streamline retrieval and analysis processes.
- Adaptability: Successfully navigated the dynamic healthcare environment, staying abreast of the latest technological advancements and incorporating them into the hospital's IT infrastructure.

### National Cheng Kung University

Tainan, Taiwan

#### VOLUNTEER

Feb. 2015 - Mar. 2016

- Admission Procedures Assistance: Provided personalized guidance to international students, streamlining admission procedures and ensuring a seamless transition into the academic environment. Addressed inquiries and facilitated documentation, fostering a supportive onboarding experience.
- Language Support: Offered language support to non-native English speakers, improving communication and integrating academic and social aspects of university life.
- Event Coordination: Planned and participated in events promoting diversity and cultural exchange. Contributed to the organization and execution of workshops, seminars, and cultural festivals, enriching the university community experience.
- Cultural Exploration: Orchestrated cultural exchange activities, including cultural events, city tours, and language exchange programs. Facilitated immersive experiences in Taiwanese culture, fostering a rich and inclusive university environment.