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

DevOps	AWS, GCP, Docker, Jenkins
Back-end	Django, Flask, Spring Boot, REST API
Front-end	Angular, HTML5
Programming	Node.js, Python, Java, PHP, Swift
Languages	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 *Jun. 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*

S<small>OFTWARE</small> E<small>NGINEER</small> *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*

R<small>ESEARCHER</small> & D<small>EVELOPER</small> *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 reducinged 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. <small>IN</small> C<small>OMPUTER</small> S<small>CIENCE AND</small> I<small>NFORMATION</small> E<small>NGINEERING</small> *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*

A<small>SSISTANT</small>, V<small>OLUNTEER</small> *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*

V<small>OLUNTEER</small> *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.