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

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

Work Experience

Freelance
FULL-STACK DEVELOPER

Taipei, Taiwan
Sep. 2021 - 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.
- Aiding small business startups in establishing online stores, and supporting businesses in optimizing their websites for improved SEO.

Taipei Beitou Health Management Hospital
BUSINESS LECTURER

Taipei, Taiwan
June. 2021 - July. 2021

- Led iOS and web app training, emphasizing Swift for e-bulletin boards. Utilized Swift to enhance intranet communication with iOS-based announcement platforms. Implemented Firebase for dynamic push notifications, resulting in a 20% increase in hospital staff engagement and responsiveness. Contributed significantly to overall organizational communication strategy.
- Focused on hands-on experience in designing medical systems, API development, and database operations. Implemented dynamic push notifications through Firebase for enhanced engagement.
- Cultivated a problem-solving mindset among colleagues, leveraging online applications for efficient work solutions. Resulted in a 25% reduction in troubleshooting time, boosting workflow efficiency and team productivity.

E.SUN BANK
SOFTWARE ENGINEER

Taipei, Taiwan
Jun. 2018 - Mar. 2020

- Cooperated with IBM to lead the development 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 (CI/CD) practices, significantly enhancing 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
SCHOOL AMBASSADOR, SOFTWARE ENGINEER

Taipei, Taiwan
Apr. 2016 - Jun. 2016

- Conceptualized and executed marketing programs, encompassing exhibitions and test rides, to enhance brand visibility.
- Collaborated on the creation of a Content Management System using PHP for an e-commerce platform, resulting in a 30% improvement in website performance.
- Optimized the transaction process to ensure that each order can be seamlessly completed 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 (RWD) 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 search engine optimization (SEO) best practices to enhance website load times, leading to a 20% increase in website visits.

Honors & Awards

2013   **Academic Excellence Awards**, NCKU *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, substantially reducing data transmission by over 50% and device power consumption by 20%.
- Advocated user-friendly design that abides by Material Design principles, ensuring a successful project outcome that balances technical prowess and aesthetic appeal.
- 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

NCKU (National Cheng Kung University) *Tainan, Taiwan*

B.S. in Computer Science and Information Engineering *Sep. 2012 - Jun. 2016*

- Summer exchange in CityU (City University of Hong Kong) in Computer Science Dept. (Jul. 2015)

Extracurricular Activity

VGHTPE (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.

NCKU (National Cheng Kung University)   *Tainan, Taiwan*

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, facilitating improved communication and integration into 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.