

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

Taipei, Taiwan

FULL-STACK DEVELOPER

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

Taipei, Taiwan

BUSINESS LECTURER

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

Taipei, Taiwan

SOFTWARE ENGINEER

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

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 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 the Computer Science Depts. at the City University of Hong Kong (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

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, 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.