

# Kai Zhen, Randy, Liu

Software Engineer looking to make a difference by creating impact at a global scale.

Taipei, Taiwan | +886 970955073 | [wert6410@gmail.com](mailto:wert6410@gmail.com)

[github.com/RandyLiu6410](https://github.com/RandyLiu6410) | [linkedin.com/in/randy-liu-kz](https://linkedin.com/in/randy-liu-kz) | [randy-liu.com](https://randy-liu.com) | [medium.com/@wert6410](https://medium.com/@wert6410)

## PROFESSIONAL SUMMARY

A highly skilled Software Engineer with expertise in frontend engineering and over 3 years of experience in developing innovative, interactive, and feature-rich web applications, accumulated various experiences developing web solutions for multiple industries. A self-motivated and lifelong learner familiar with modern web development.

## WORK EXPERIENCE

### Software Engineer, gogoout

07 2023 –

- Handled the migration and revitalization of the official website.
- Enhanced web performance resulting in a significant boost, achieving 2x improvement.
- Integrated automated frontend monitoring system that enables tracking of lighthouse reports and facilitates immediate notification to the team during the CI process.
- Enhanced the existing product's logging solution to ensure comprehensive monitoring of visitors' journeys.
- Decomposed functionalities from existing legacy projects into smaller, more modular microservices.
- Architected an email service that encompasses the live conversion of MJML to Handlebars and the integration of i18n content.

### Full Stack Engineer, Onework.io

02 2022 – 03 2023

- Led the architecture design, development, and containerization of the Project Management Information System (PMIS) product, Projecthub, composed of four cloud collaborative microservices supporting data versioning.
- Utilized Single-SPA and AngularJS to integrate and consolidate various services through micro-frontend, effectively minimizing the need for redundant redevelopment and streamlining the overall development process.
- Developed and executed a cutting-edge ambulance monitoring solution that offers instantaneous route tracking utilizing Mapbox and IPCam streaming technology.
- Took the initiative to spearhead the process of refactoring an existing project to enhance both the development experience and user satisfaction.
- Enhanced team performance and collaboration by optimizing the interview process and implementing regular knowledge-sharing sessions weekly.
- Technologies used: React.js, Vue.js, NestJS, MinIO, TypeScript, MongoDB, MySQL, Docker, MaterialUI, Antd, Webix

### Co-Founder, Full Stack Engineer, TryTech

02 2021 – 10 2021

- Achieved the successful attainment of 2,000,000 NTD in 8 months.
- Led project management efforts and spearheaded client negotiations, demonstrating strong communication skills and a deep understanding of client needs and expectations.
- Led the development of four innovative SaaS services catering to clients across multiple industries. Used React.js, Express, MongoDB, and PostgreSQL.  
<https://oneoffs.art/>, <https://asiania.me>, <https://www.randy-liu.com/project/10>, <https://www.randy-liu.com/project/9>

### Research Assistant, The Hong Kong Polytechnic University

08 2019 – 07 2020

- Developed a BIM (Building Information modeling) platform for Structure Health Monitoring (SHM) of maglevs.
- Spearheaded the development of an Autodesk Forge collaboration platform and an Augmented Reality app, enabling Structure Health Monitoring of constructions and sensor localization.  
<https://www.randy-liu.com/project/4>
- Designed and developed an educational Augmented Reality platform that provides construction-related questions on a 3D viewer.  
<https://www.randy-liu.com/project/8>
- Technologies used: React.js, Express, MongoDB, MaterialUI, Autodesk Forge

## TECHNICAL SKILLS

JavaScript, HTML, CSS, React.js, Next.js, Vue.js, Nuxt.js, Node.js, NestJS

## EDUCATION

**Master of Science, Civil Engineering Computer Aided Engineering, National Taiwan University** **2018-2021**

- GPA: 4.04/4.3

**Bachelor of Science, Civil Engineering, National Cheng Kung University** **2014-2018**

- GPA: 4.23/4.3(Last 60)

## PROJECTS

**Developer, Asiania (<https://asiania.me>)** **05 2021 – 10 2022**

- Led development efforts for a comprehensive suite of features to support online event hosting, including session rooms, media players, WYSIWYG editors, QA functionality, and polling tools.
- Developed e-ticket management capabilities, enabling seamless payment processing, sending, and authorizing of electronic tickets for a range of events.
- Leveraged Azure Application Insights to collect and analyze critical Business Intelligence data and user behavior.
- Technologies used: Next.js, Express, GraphQL, MongoDB, MaterialUI
- Detailed description: <https://www.randy-liu.com/project/17>