

# Kai Zhen, Randy, Liu

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

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## PROFESSIONAL SUMMARY

A highly skilled Software Engineer with expertise in frontend engineering and over 2 years of experience in developing innovative and user-friendly software solutions, accumulated various experiences developing products for multiple industries. In the past year, I had been in charge of the development and architecture design of microservices and microfrontends and proposed several initiatives to improve company culture and decision-making execution.

## WORK EXPERIENCE

### Full Stack Engineer, Onetwork.io

02 2022 – 03 2023

- Led the design, development, and containerization of the Project Management Information System (PMIS) product, Projecthub, including the architecture of four cloud collaborative microservices. Optimized data processing, image and data rendering, and data versioning to enhance overall performance and usability.
- Developed sharing features for existing microservices and integrated microfrontends into Projecthub, utilizing Single-SPA and AngularJS.
- Designed and implemented an ambulance monitoring service to provide real-time route tracking based on Mapbox and IPCam streaming.
- Volunteered to lead the refactoring of an existing project, resulting in a reduction in codebase size, a 20% reduction in memory usage, and a 50% reduction in page load time.
- Improved the efficiency of the interview process and organized weekly knowledge-sharing sessions, enhancing overall team performance and collaboration.
- 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

- Successfully raised 2,000,000 NTD within an 8-month timeframe.
- 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://asiana.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 (Proficient), HTML (Proficient), CSS (Proficient), React.js (Proficient), Next.js, Vue.js, Node.js, NestJS

## EDUCATION

### Master of Science, Civil Engineering Computer Aided Engineering, National Taiwan University

2018-2021

- GPA: 4.04/4.3

- GPA: 4.23/4.3(Last 60)

## **PROJECTS**

**Developer, Asiana (<https://asiana.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>