

# Yu-Tsung Kuo

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## EDUCATION

**Carnegie Mellon University**  
*Master of Science in Software Engineering*

MountainView, CA, USA  
Sept. 2023 - Exp. Dec. 2024

**National Cheng Kung University**  
*Bachelor of Science in Computer Science and Information Engineering; GPA 3.83/4.3*

Tainan, Taiwan  
Sept. 2018 - June 2022

## TECHNICAL SKILLS

### Languages:

JavaScript, TypeScript, Python, C/C++, Java, PHP, SQL,  
Bash

### Frameworks:

React.js, Next.js, Chakra-UI, WordPress, Vue.js, Node.js,  
Flask, Docker, Azure, MySQL, PyTorch, Git

## WORK EXPERIENCE

### Your Knowledge

*Software Engineer* | WordPress · Next.js · Azure · Devops

Remote  
Dec. 2022 - Present

- Developed a custom WordPress theme using PHP and TailwindCSS for an online course website, featuring an intuitive Theme Editor empowering non-developers to personalize the website's content
- Utilized GraphQL for precise data-fetching, resulting in a 50% reduction in over-fetched data from the backend service
- Transformed WordPress to a headless CMS architecture by decoupling front-end and back-end for flexibility and scalability
- Integrated Next.js for the frontend, resulting in a 25% improvement in site loading speeds and a more seamless user experience
- Implemented Redux for centralized state management and data caching feature, achieving 40% reduction in data fetching
- Constructed a CI/CD workflow using Docker and GitHub Action, resulting in a 80% reduction in deployment time

### Nightingale AI.

*Software Engineer* | React.js · Chakra-UI · Figma

Tainan, Taiwan  
July 2020 - Oct. 2022

- Handled the frontend development single-handedly for the [Digital Diploma project](#), adopted by 60 universities in Taiwan
- Developed the NCKU Digital Transcript [Application](#) / [Verification](#) System from the ground up, enhancing document application efficiency by moving the entire process online, benefiting over 2000 graduates annually
- Built statistical dashboards for visualizing medical data, assisting over 100 healthcare professionals during an epidemic
- Implemented push notifications feature on Smart Home App using service workers, enabling instant energy-saving alerts and resulting in a 20% reduction in energy consumption in collaboration with Tokyo Electric Power Company Holdings, Inc.
- Coordinated with designers to establish a reusable design system using Chakra UI, leveraging its modular components and theming capabilities, resulting in 30% acceleration in team development efficiency over 10 projects
- Enhanced code quality by utilizing ESLint and migrating the JavaScript codebase to TypeScript

### AINimal

*Software Engineer* | PyTorch · Recommendation System · React.js

Tainan, Taiwan  
Oct. 2019 - Nov. 2022

- Designed and implemented a graph convolution network-based [recommendation system](#) for a dating app's matching algorithm, incorporating user profiles analysis and chat status evaluation to achieve 60% accuracy in recall score
- Enhanced the recommendation system using the Linguistic Inquiry and Word Count, boosting accuracy to 75%
- Engineered an analytical tool to offer insights into application data, enabling the product team to make data-driven decisions

## PROJECTS

### Real-time Messaging App [ Express.js, Socket.io ] [ [website](#) ]

- Developed a chatting app using object-oriented programming in JavaScript, emphasizing encapsulation and inheritance
- Applied the Block Element Modifier (BEM) methodology in frontend development, ensuring a modular CSS approach
- Incorporated Prisma (ORM) with the SQLite database, ensuring type-safe DB interactions and streamlined data management

### Shopping Mall Navigator (Meichu Hackathon) [ Chatbot, React.js, FastAPI ] [ [code](#), [website](#) ]

- Developed a customer-centric system aimed at recommending stores of interest, enhancing the overall shopping experience
- Integrated LINE BEACON technology to detect customer entry, initiating an immediate in-store guide via a chatbot
- Designed a graphical dashboard interface for store owners, facilitating chatbot design and marketing data monitoring