

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:

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

DevOps and Cloud:

OCI, Azure, AWS, Docker,
Kubernetes, Github Actions

Web Development:

Next.js, Vue.js, Express.js,
Flask, MongoDB, MySQL

Development Methods:

Scrum, Agile, XP, Waterfall,
Test-Driven Development

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

Fight COVID-19 - Tower Defense Game [Java, Unified Modeling Language (UML)] [[code](#)]

- Developed a tower defense game to raise awareness about the importance of taking preventive measures against COVID-19
- Utilized Java and object-oriented programming (OOP) principles to create a robust and scalable game architecture
- Utilized UML to map out the game's core functionalities, ensuring a clear understanding of the system's flow and interactions

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