Yu-Tsung Kuo

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EDUCATION

Carnegie Mellon University
MountainView, United States
Master of Science in Software Engineering
September 2023 - December 2024

National Cheng Kung University
Tainan, Taiwan
Bachelor of Science in Computer Science and Information Engineering; GPA 3.83/4.3
September 2018 - June 2022

SKILLS

Languages:	**DevOps and Cloud:**	**Web Development:**	**Desktop Application:**
TypeScript, Python, Java, JavaScript, C/C++, PHP	Azure, AWS, Docker, Kubernetes, Github Actions	Next.js, Vue.js, Express.js, Flask, MongoDB, MySQL	Qt, JUCE, Electron, Unity

WORK EXPERIENCE

Your Knowledge
Remote
Software Engineer | WordPress · Next.js · Azure · Devops
December 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 backend data over-fetching
- 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
- Introduced Redux for centralized state management and data caching feature, achieving 40% reduction in data fetching
- Constructed a CI/CD workflow with Docker and GitHub Action, resulting in a 80% reduction in deployment time

Nightingale AI.
Tainan, Taiwan
Software Engineer | React.js · Chakra-UI · Figma
July 2020 - October 2022

- Handled 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 via service workers, enabling instant energy-saving alerts and resulting in a 20% reduction in energy consumption in collaboration with Tokyo Electric Power Company
- Coordinated with designers to establish a reusable design system powered by Chakra UI, leveraging its modular components and theming capabilities, resulting in 30% acceleration in team development efficiency over 10 projects
- Improved code quality by utilizing ESLint and migrating the JavaScript codebase to TypeScript

AInimal
Tainan, Taiwan
Software Engineer | PyTorch · Recommendation System · React.js
October 2019 - June 2022

- Devised and created 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
- Optimized the recommendation system by utilizing 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

Smart Audio Mixer [C++, JUCE] [code]

- Led a three-member team to build a modern audio editor with third-party plugin support
- Reconstructed the user interface of the application to improve usability and match different operating systems' needs

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

- Built a customer-centric system aimed at recommending stores of interest, elevating 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