Yu-Tsung Kuo

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EDUCATION

Carnegie Mellon University   Mountain View, CA
Master of Science in Software Engineering   Sep 2023 - Dec 2024
- Relevant coursework: Foundation of Software Engineering, Software Testing and Verification

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

SKILLS

Programming Languages: TypeScript, JavaScript, Python, C/C++, Java, PHP, C#, Bash, SQL

Web Development: Next.js, Vue.js, Express.js, Flask, MongoDB, MySQL, Azure, AWS, Docker, Github Actions, JUnit

Low-Code / No Code: Google AppScript, Google AppSheet, Power Automate, WordPress, Zapier, Bubble.io

WORK EXPERIENCE

Your Knowledge (startup)   Remote
Software Engineer | Next.js · Azure · Devops · PHP · GraphQL   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 backend data over-fetching
- Transformed WordPress to a headless CMS architecture by decoupling frontend and backend 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 · TypeScript   July 2020 - Oct 2022
- Developed the website frontend individually for the Digital Diploma project, adopted by 60 universities in Taiwan
- Built the NCKU Digital Transcript Application / Verification System from scratch, enhancing document application efficiency by moving the entire process online, benefiting over 2000 graduates annually
- Collaborated closely with backend developers to construct statistical dashboards for visualizing medical data, delivering valuable tools for over 100 healthcare professionals during COVID
- 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   Oct 2019 - June 2022
- Designed 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 improve accuracy by 30% in recall score
- Optimized the recommendation system by utilizing the sentiment and word analysis, further boosting accuracy by 15%
- 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]   July 2023 - July 2023
- Developed a chatting app using object-oriented programming in JavaScript, emphasizing encapsulation and inheritance
- Applied the Block Element Modifier (BEM) methodology in frontend development to ensure 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]   Oct 2021 - Oct 2021
- 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