Yu Tsung (Eric) Kuo

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EDUCATION

Carnegie Mellon University
Master of Science in Software Engineering

Mountain View, CA
Sep 2023 - Dec 2024

- Relevant coursework: Foundation of Software Engineering, Software Testing and Verification

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

Tainan, Taiwan
Sep 2018 - June 2022

SKILLS

Programming Languages: TypeScript, JavaScript, Python, C/C++, Java, PHP, C#, Bash, SQL
Web Development: Express.js, Flask, MongoDB, MySQL, Next.js, Vue.js, Azure, AWS, Docker, Github Actions, JUnit

WORK EXPERIENCE

Your Knowledge
Software Engineer | PHP, Azure, Devops, GraphQL, Next.js

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
- Constructed a CI/CD workflow using Docker and GitHub Action, resulting in an 80% reduction in deployment time

Nightingale AI.
Software Engineer | Flask, Node.js, React.js, TypeScript

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 Flask, enabling instant energy-saving alerts and resulting in a 20% reduction in energy consumption in collaboration with Tokyo Electric Power Company Holdings, Inc.
- Enhanced code quality by utilizing ESLint and migrating the JavaScript codebase to TypeScript

AInimal
Software Engineer | Express.js, PyTorch, Recommendation System

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

Emergency Social Network [Express.js, Socket.io, MySQL, Jest] [website]   July 2023 - present

- Collaborated with a team of 5 using Scrum and Kanban methodologies to develop a real-time chatting app
- Led the development of RESTful APIs using Express.js, while also implementing real-time connections using WebSockets
- Applied ES6 OOP features, with the MVC pattern and SOLID principles to design and implement a maintainable system
- Incorporated Prisma with the MySQL database, ensuring type-safe DB interactions and streamlined data management
- Conducted unit testing with Jest, applying dependency injection with SQLite to prevent effects on the production database
- Applied the Block Element Modifier (BEM) methodology in frontend development to ensure a modular CSS approach

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