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EDUCATION

Carnegie Mellon University

Master of Science in Software Engineering

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

Mountain View, CA

Sep 2023 - Dec 2024

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

WORK EXPERIENCE

Your Knowledge

Software Engineer | Next.js Azure Devops PHP GraphQL

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 an 80% reduction in deployment time

Nightingale AI.

Software Engineer | React.js Chakra-UI 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 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](#)]

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