



EDUCATION

University of Wisconsin-Madison

09/2022 - 12/2024 (expected)

Master's degree, Computer Science, GPA: 4.0 / 4.0

Madison, WI

- Relevant coursework: High-Performance Computing, Big Data Systems, Networks, Operating Systems, Cloud Database, Data Structures, Algorithms

National Taiwan University

09/2015 - 06/2020

Bachelor of Science Double Major: Atmospheric Science and Entomology

Taipei, Taiwan

- Academic Excellence Award (top 5% of the class in a semester) in 2017

- Relevant coursework: Program and Scientific Computing, Matlab, Numerical Analysis, Statistics

WORK EXPERIENCE

eKoPro Solutions Inc.

12/2021 - 06/2022

Front-End Web Developer

Taipei, Taiwan

- Optimized Responsive Web Design (RWD) on an existing website, simplifying user access and reuse, compressing the project timeline from 1 month to just 2 weeks, a 50% reduction
- Simplified React.js code by merging similar UI components, maintaining consistent coding standards through collaboration, and reducing code volume by 35% for easier management
- Solved complex form validation issues by identifying logic errors in the design and collaborating with a UI/UX designer to implement a user-friendly solution, improving a user experience before form submission
- Worked collaboratively with the front-end team to foster and save development time by 40%

PROJECT

[Programming III] Java Application Development | Java

04/2023 - 05/2023

Full-Stack Role

Madison, WI

- Collaborated to implement Red-Black Trees, optimizing data management and search functionality
- Implemented Dijkstra's algorithm for optimized flight distance and cost calculations, leading to time and cost savings for customers

Personal Blog | Node.js, Express.js, EJS view engine, MySQL

08/2021 - 09/2021

Full-Stack Role

Taipei, Taiwan

- Developed RESTful APIs for editing and posting articles with express.js and MySQL
- Spearheaded the development of a robust user authentication login system using express-session, resulting in a 50% decrease in security breaches and reinforced data protection
- Deployed web applications on the Heroku platform

Second Hand Bookstore Website | Node.js, Express.js, MySQL, AWS EC2

10/2021

Back-End Role

Taipei, Taiwan

- Deployed RESTful APIs on AWS to facilitate front-end data retrieval from the URL, strengthened by the implementation of a firewall to enhance security and deter unauthorized access
- Improved project organization by segregating front-end and back-end applications using Nginx, simplifying front-end development of the user interface
- Designed and developed RESTful APIs for retrieving book information using Express.js and MySQL

Bulletin Board | PHP, AWS EC2, MySQL

10/2021

Full-Stack Role

Taipei, Taiwan

- Reinforced the member system by specifying user roles (e.g., "user" and "manager") with distinct permissions, creating a more secure and reliable environment
- Enhanced network security through the implementation of protective measures, effectively preventing Cross-Site Scripting (XSS), SQL Injection, and unauthorized manipulation of cookies and query strings
- Boosted database query speed by strategically applying left joins to optimize queries, resulting in significantly faster performance

SKILLS

- Programming Language: Java (proficient), MATLAB (familiar), C/C++ (intermediate),
- Web Development: ReactJS (proficient), JavaScript (intermediate), Node.js, HTML/CSS, PHP (beginner), Vue.js
- Tools: MySQL, Deployment on Amazon Web Services, Docker