Pin-Chun LU

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EDUCATION

University of Wisconsin-Madison   **09/2022 - 12/2024 (expected)**
Master of Science, 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. (IT Services and IT Consulting)   **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%

PROJECTS

[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 API | 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 Languages: Java (proficient) | C/C++, MATLAB (familiar) | python (beginner)
- Software Engineering: ReactJS, Redux, JavaScript, HTML/CSS, (proficient) | Node.js (intermediate) | WebPack, Vue.js (beginner)
- Tools: Git, MySQL, Deployment on Amazon Web Services, Docker (familiar)