

Tzu-Chun Hsu

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☎ +1 (862) 703-6740

📍 Pinebrook, NJ

🌐 [Portfolio](#)

SUMMARY

Highly motivated and detail-oriented IT professional with a solid academic background and hands-on experience in database management, cloud management, web development, and e-commerce projects. Developed practical skills through internships, including enhancing user interaction through UI/UX design and managing inventory systems with ERP tools, while also gaining experience in conducting penetration testing and creating dynamic websites. Passionate about leveraging technology to solve real-world challenges and contribute meaningfully to innovative projects.

For more details about my work and projects, please check out my portfolio linked in the top-right corner.

EDUCATION

● New Jersey Institute of Technology, NJ

Jan 2022 – May 2025

- Bachelor of Science in Information Technology
- GPA: 3.775

Sep 2021 – May 2022

EXPERIENCE

● Software Engineer Intern, Case Medical, NJ

Feb 2025 – Present

- Developed dynamic e-commerce website features using HTML, CSS, JavaScript, PHP, and SQL to support product recommendation and user interaction.
- Designed and managed MySQL databases for scalable tracking of products and user interactions.
- Optimized front-end performance through responsive UI/UX design, image handling, and code refactoring, significantly improving load times and user engagement.

● Student Assistant, New Jersey Institute of Technology CS Department, NJ

May 2024 - Aug 2024

- Coordinated datasets and created image caption to support AI model training and evaluation tasks.
- Coordinated and translated machine learning-related academic papers and literature.

● Internship, Stop 4 Luxury, NYC, NY

July 2022 - Nov 2022

- Managed inventory data using Excel and ERP systems, ensuring accurate packaging and distribution.
- Optimized the online shopping experience using Shopify and CRM tools, focusing on user experience and sales improvement.
- Prepared tailored sales proposals to support business development, focusing on identifying client needs and presenting customized solutions.

● Student Assistant, Louisiana State University Radiation Safety Office, LA

May 2022 – July 2022

- Maintained order and safety through effective crowd control.
- Efficiently organized and sorted mail and files, supporting office operations.
- Perform data entry and analysis to support radiation contamination related research projects.
- Created diagrams to visualize and communicate complex project details.
- Supported various radiation safety projects with diagram creation and research assistance.

SKILLS

- Cloud Management (AWS, GCP, Azure)
- Database Management (MySQL, PostgreSQL)
- Programming & Scripting (Java, Python, C#, PHP, JS)
- Network Scan Troubleshooting
- Web Dev (Django, Dupal, Joomla, Spring, REST API)
- Mandarin

PROJECTS

● Distributed Backend System Development

- Developed a scalable backend system using Python, RabbitMQ, and MySQL, incorporating automated monitoring, error handling, and high-concurrency support.

● Cybersecurity & Penetration Testing

- Identified and mitigated security vulnerabilities through penetration testing with Kali Linux, strengthening system defenses.

● DLL Injection Research & Defense

- Investigated DLL injection techniques and implemented detection mechanisms to enhance Windows system security.