Hsin-Ya (Annie) Chien

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Education

University of Illinois Urbana-Champaign   08/2025 –05/2027
MSc, Information Management   Urbana, IL
- Coursework: Database Systems, Distributed Systems, Web Development, Data Mining, Python Programming

National Taipei University of Technology,
National Taiwan University of Science and Technology   09/2024–01/2025
Credit Program   Taipei, Taiwan
- Courses: Linear Algebra, Data Structure, Operating Systems

National Taiwan University   09/2018–06/2020
MSc, Chemistry   Taipei, Taiwan
- Published thesis research and awarded Excellent Poster Presentation

Skills

- **Programming Languages**: Python, JavaScript, C, Java
- **Databases**: SQL, MongoDB
- **Web Development**: HTML, CSS, React.js, Node.js, Express.js, Bootstrap
- **Technology**: Git, REST APIs, Postman

Selective Projects

Finance Tracker | *HTML, CSS, JavaScript, React, Node.js, Express, MongoDB*   06/2025
- Developed a full-stack web application for financial management with CRUD features, including expense tracking, categorization, and budgeting
- Implemented rule-based and AI-enhanced logic to analyze spending trends and suggest budgeting actions

Personal Portfolio Website | *HTML, CSS, JavaScript, Responsive Web Design*   05/2025
- Designed and built a personal portfolio website to showcase web development projects and skills
- Emphasized clean UI/UX design and responsive layout for both desktop and mobile platforms

Weather Forecast App | *CSS, JavaScript, Open-Meteo API, Express, Node.js*   04/2025
- Built a dynamic weather forecasting app with React, displaying multi-day forecasts using API data. Implemented interactive UI components and weather-based background visuals to enhance user experience

Work Experience

Taiwan Semiconductor Manufacturing Company (TSMC) – Hsinchu, Taiwan   02/2023–01/2024
Process Transfer Engineer (Domestic Assignment)
- Collaborated closely with R&D to conduct equipment experiments, generate analytical reports, visualize data, and provide strategic recommendations for new equipment planning
- Collaborated across two disciplines in backend processes, using SQL and Excel to analyze recurring issues, resulting in a 30%+ decrease in scrap rate
- Collected real-time monitoring data from ICP modules, analyzed trends to generate analysis reports, and developed strategies for calibration guidelines, reducing equipment malfunction risk while ensuring consistent instrument performance

Taiwan Semiconductor Manufacturing Company (TSMC) – Tainan, Taiwan   02/2021–02/2023
Process Engineer
- Extracted and analyzed large datasets using SQL to compare machine data, mask patterns and types, resulting in actionable insights that optimized operational procedures, achieving around 10% improvement in yield
- Collaborated with equipment suppliers (Applied Materials and SUSS) and material providers (DuPont) to design and execute experiments, proposing solutions and optimizing procedures for existing issues
- Mentored an intern and a new hire by co-developing worksheets with automated data visualization tools, significantly enhancing their understanding of equipment and products, and accelerating their onboarding process