

Ching Yu Tseng

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Waterloo, Ontario - N2L 4X2, Canada

OBJECTIVE

Seeking a challenging internship/coop in software engineering, data analytics, or data science to leverage my expertise in programming, data analysis, and problem-solving. Aiming to contribute to innovative projects at the intersection of artificial intelligence and software development, with a focus on practical problem-solving in fields such as fintech, data science, and scalable web applications.

EXPERIENCE

• University of Waterloo

May 2025 - August 2025

Waterloo, Canada

WE accelerate - project team member

- Developed the pipeline and implemented a travel advisor chatbot, improving skills of Azure AI services integration and enhancing user experience through personalized travel recommendations and real-time assistance.
- Collaborated in weekly meetings and retrospectives, strengthening project management and fast-paced teamwork throughout the development cycle.
- Conducted data analysis and user research to identify key insights and integrate client feedback, ensuring the final product met usability and performance standards.
- Presented project deliverables and findings to peers and industry partners, enhancing technical communication and public speaking skills.

• Freelance Project – Developer

June 2025 – August 2025

Waterloo, Canada

Automated PowerPoint Generation Website | Remote

- Built a web application that processes microwave measurement data and automatically generates analytical PowerPoint reports, improving workflow efficiency for research teams.
- Implemented secure data handling and intuitive UI design to balance usability, data protection, and system reliability.
- Collaborated closely with clients from the microwave engineering field, effectively bridging technical gaps through active communication and rapid self-learning of domain-specific concepts.
- Gained valuable experience in full-stack development, project deployment, and adapting complex technical requirements into practical and user-friendly solutions.

EDUCATION

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University of Waterloo

September 2024 - August 2029

Waterloo, Canada

Honours Math 2A

* GPA: 3.70/4.00

PROJECTS

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Personal Official Website

May 2025 - June 2025



Tools: React, Spline, Tailwind CSS, FastAPI, and other modern web development tools

- * Developed a responsive user interface to enhance visitor engagement and accessibility across devices.
- * Implemented FastAPI backend to enable efficient data handling and seamless interaction between frontend and server, achieving a 30 percent reduction in load time
- * Created interactive 3D components using Spline, ensuring an immersive and visually appealing user experience.
- * Applied UI/UX knowledge to enhance user experience

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Frontend E-commerce website

April 2025



Tools: React, UI Design

SKILLS

- **Programming Languages:** Python, C, C++, SQL, HTML/CSS/JS, Bash, Git, Racket
- **Web Technologies:** React, Spline, Vercel, Render, TailwindCSS, 3D motion
- **Database Systems:** SQL
- **Data Analytic:** PowerBI
- **Cloud Technologies:** Azure, Azure service
- **Other Tools & Technologies:** Excel, Microsoft Office, Github, fastAPI
- **Soft Skills:** Leadership, Independent, Communication, Cooperation, Critical thinking, Attention to details

VOLUNTEER EXPERIENCE

- **Library Data Controller**
Bade Library
 - * Record, manage and organize library data records, ensuring accurate cataloging and easy retrieval of information.
 - * Reduced search time, increase data accessibility
 - * Developed skills in data entry, attention to detail, and database management while collaborating with library staff to maintain information accuracy.

◦ **Electronics Equipment Assistant**
Zhongli High School

 - * Assisted in managing and maintaining electronic devices and lab equipment, ensuring proper setup, functionality, and availability for students and faculty.
 - * Monitored device inventory, organized equipment checkouts, and supported troubleshooting of minor technical issues to maintain smooth operations.
 - * Strengthened skills in technical problem-solving, teamwork, and responsible equipment handling through close collaboration with staff and users.

CERTIFICATIONS

- **Front-end Development with React V2** May 2025
- **Azure AI Fundamentals** June 2025
- **Azure Fundamentals** June 2025
- **SQL for Data Science** June 2025
- **Power BI: Get started with Microsoft data analytics** August 2025

ADDITIONAL INFORMATION

Languages: English (Proficiency level), Mandarin (Proficiency level), Taiwanese (Proficiency level)

Interests: Piano, Basketball, Gaming, Cooking