Ching Yu Tseng

6046575173 | c7tseng@uwaterloo.ca | Linkedin | Github Personal Website

TECHNICAL SKILLS

Languages: Python, C, C++, SQL, HTML/CSS/JavaScript, Bash, Racket
Frameworks & Libraries: React, Tailwind CSS, Spline, FastAPI, NumPy, pandas, Matplotlib
Developer Tools & Platforms: Git, Azure, Azure AI Services, Excel, Microsoft Office, VS code, Figma
Data Analytic & Database: PowerBI, SQL(Postgres, MySQL)

EDUCATION

University of Waterloo — Waterloo, Ontario
Honours Math in Applid Mathematics & Machine Learning, Minor in Economics — *Sep 2024 – May 2029*

EXPERIENCE

Data Analyst Intern — Jan 2026 – Present
Taoglas — *Waterloo, Canada (remote)*
- Improved accuracy of warehouse allocation data of antenna's STQ records by identifying missing, and incorrect entries used to determine antenna quantities per customer.
- Resolved critical data gaps as measured by validated antenna requirements for customer orders by working closely with coworkers to collect, and verify missing customer and antenna information.
- Strengthened collaboration by faster clarification and correction of data issues by actively communicating with multiple teams to ensure customer allocation data was accurate and complete.

Software Developer Intern — Jun 2025 – August 2025
Taoglas — *Waterloo, Canada (remote)*
- Automated the processing and analysis of microwave measurement data by designing a data ingestion and transformation pipeline, generating structured insights and analytical PowerPoint reports for research teams.
- Ensured data integrity, security, and reliability by implementing secure data handling practices and validation logic, supporting safe processing of sensitive engineering datasets.

WE Accelerate - Project Team Member — May 2025 – Aug 2025
University of Waterloo — *Waterloo, Ontario*
- Developed an end-to-end travel advisor chatbot by integrating Azure AI services, enabling personalized travel recommendations and real-time assistance for users.
- Delivered project milestones on schedule by collaborating in weekly stand-ups, contributing effectively within a fast-paced, agile team environment.

Library Data Manager — June 2022 – July 2022
Bade Library — *Taoyuan, Taiwan*
- Organized and managed library data records as measured by faster retrieval and improved data accuracy by developing structured cataloging processes and maintaining consistent data entries.
- Strengthened data management and analytical skills as measured by error-free records and reliable reporting by collaborating with library staff to ensure integrity and consistency of information.

PROJECTS

CS246 Project: RAIINET Grade: 106/100 | *C++/C, OOP, X11, Git, Bash, Linux* — Nov 2025 – Dec 2025
- Led a 3-member team to deliver a fully functional OOP project as measured by all planned features implemented with robust exception handling by coordinating feature design and integrating team contributions.
- Designed and adapted system architecture and UML diagrams as measured by efficient, maintainable code aligned with project requirements by customizing traditional design patterns to fit project needs.
- Enhanced project usability and engagement as measured by working graphics, multiplayer modes, and a custom UI by implementing bonus features beyond the core requirements.

Personal Official Website | *HTML5/CSS/Javascript, React, Python, FastAPI, Spline, Figma* May 2025 – June 2025
- Built a responsive full-stack website as measured by improved accessibility and performance by developing a React and Tailwind CSS frontend with a FastAPI backend.
- Increased user engagement as measured by a more immersive and consistent UI/UX by integrating interactive 3D visuals using Spline and applying design best practices.