

SHIH-HSIN CHUANG

Toronto, Ontario

☎ +1-416-833-5213 ✉ shih.hsin.chuang@gmail.com 🔗 [linkedin.com/in/shih-hsin-chuang](https://www.linkedin.com/in/shih-hsin-chuang) 🌐 github.com/ShihHsin0723
🌐 shih-hsin-chuang.netlify.app

Education

University of Toronto St. George Campus - Trinity College **Sept. 2022 – May 2026**

Honours Bachelor of Science - Computer Science Specialist & Mathematics and Statistics Minors *Toronto, Canada*

- **CGPA:** 3.98/4.00
- **Relevant Coursework:** Software Design, Software Tools & Systems Programming, Theory of Computation, Data Structure & Analysis, Computer Organization
- **Awards:** Dean's List Scholar, Chancellor's Scholarship
- **Activities:** LearnAI Program, UT MIST Hackathon, Only Human Dance Collective Marketing/Social Media Director, Volunteer Note-Taker for Accessibility Services

Technical Skills

Languages: Python, Java, C, R, JavaScript, HTML5, CSS, SQL

Frameworks/Libraries: React, Bootstrap, NLTK, Tkinter, pandas, JUnit, UML

Tools: Git, GitHub, Linux, virtual machine, MS Office

Experience

Global Teamwork Summer Tech Intern @ EMQ & Intel **May 2023 – Jul. 2023**

University of Toronto *Remote*

- Analyzed the performance of MQTT over QUIC protocols through rigorous testing and benchmarking
- Simulated network environments with over 20 distinct packet-dropping conditions to evaluate the protocol's performance
- Demonstrated the functionality and operation of MQTT and QUIC on the Intel AIXBoard for an IoV scenario

Coding Camp Teaching Instructor **Jul. 2022 – Aug. 2022**

CodingAPE School *Hsinchu, Taiwan*

- Led engaging discussion sections for 30+ students, fostering collaborative group discussions, and provided personalized support for their Python final projects
- Reviewed course materials with the lead instructor and organized students into groups based on their learning progress

Projects

Music Tastes Friend-Making App | Java, JSON **Oct. 2023 - Dec. 2023**

- Utilized various endpoints of the Spotify API and worked with JSON objects to retrieve relevant features of users' Spotify playlists, enabling them to match based on shared music tastes
- Developed and executed comprehensive JUnit tests, achieving 80% of the codebase coverage
- Followed object-oriented programming (OOP) principles and adhered to design patterns to ensure program extensibility

Movie Recommendation System | Python, Tkinter **Mar. 2023 - Apr. 2023**

- Applied collaborative filtering technique to generate personalized movie recommendations based on a database containing over 270,000 real-world movie reviews
- Ran the algorithm with both training and testing datasets, achieving an average matching accuracy rate of 92%
- Utilized Tkinter to create a GUI that supports user actions, including the selection of desired genres, writing movie reviews, and displaying recommendation results

Personal Website | ReactJS, HTML, CSS, Bootstrap **Dec. 2023 - Jan. 2024**

- Designed and developed a dynamic personal website using the ReactJS library to showcase my skills and projects
- Incorporated the Bootstrap framework to efficiently structure and style various elements of the website, ensuring ease of maintenance and scalability

Extracurricular

Scotiabank Unlock Your Future 2024 – Technology Mentorship Program **Jan. 2024 – Present**

- Collaborated with an experienced mentor to receive personalized guidance and actively contributed to discussions on the experiences and challenges of women working in technology

Preparation for Research through Immersion, Skills, and Mentorship **Winter 2024 – Present**

- Collaborated within a team of six on a research project focused on integrating AI in healthcare, under the guidance and mentorship of graduate students