

# SHIH-HSIN CHUANG

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🌐 [shih-hsin-chuang.netlify.app](https://shih-hsin-chuang.netlify.app)

## Technical Skills

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**Languages:** Python, Java, C, R, JavaScript, HTML, CSS

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

**Tools:** Git, GitHub, Application Programming Interface (API), Virtual Machine, Project Jupyter, MS Office

## Education

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**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:** 4.0/4.0
- **Relevant Coursework:** Software Design, Software Tools & Systems Programming, Theory of Computation, Data Structure & Analysis, Computer Organization
- **Awards:** Dean's List Scholar, Chancellor's Scholarship

## Experience

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**Team EMQ & Intel Tech Intern**

**May 2023 – Jul. 2023**

*Teamwork Global - University of Warwick*

*Remote*

- Analyzed the characteristics of MQTT over QUIC protocols through testing and benchmarking using virtual machines
- 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

**English Language Instructor**

**Jul. 2020 – Aug. 2022**

*Community Tutoring (Freelance)*

*Hsinchu, Taiwan*

- Assisted adults with formal writing essential for the workplace, guiding structure, clarity, and effective communication
- Practiced English conversation and writing mechanics with children in an engaging manner

**Coding Camp Teaching Instructor**

**Jul. 2021 – Aug. 2021**

*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

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**Music Tastes Friend-Making App | Java, Swing, 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
- Created a GUI using Java Swing that manages user actions, such as editing profile and sending requests
- Developed and executed comprehensive JUnit tests, achieving 80% of the codebase coverage

**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

**Article Readability Classifier | Python, NLTK, pandas**

**Hack the MIST 2023**

- Developed an NLP program to assess the reading level of news articles, tailoring results based on the user's age group and preferred article category
- Incorporated the NLTK library and Flesch-Kincaid Grade Level measure to calculate and determine the readability of articles

## Extracurricular

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- Scotiabank Unlock Your Future Technology Mentorship Program
- UofT Preparation for Research through Immersion, Skills, and Mentorship (PRISM)