Shih-Hsin Chuang

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Education

University of Toronto St. George Campus - Trinity College **Sept. 2022 – May 2026**
Honours Bachelor of Science - Computer Science Specialist with Focus in AI & Statistics Minor *Toronto, Canada*

- **CGPA**: 3.95/4.00
- **Relevant Coursework**: Software Design, Software Tools & Systems Programming, Theory of Computation, Data Structure & Analysis, Computer Organization, Probability, Statistics & Data Analysis
- **Awards**: Dean's List Scholar, Chancellor's Scholarship

Technical Skills

Languages: Python, Java, C, R, JavaScript, TypeScript, HTML5, CSS3, GraphQL
Frameworks/Libraries: React.js, Next.js, Tailwind CSS, Bootstrap, NLTK, Tkinter, Pandas, JUnit, UML
Tools: Git, Linux, Unit Testing, Virtual Machine, Figma, Storybook, Visual Studio, Jupyter Notebook, MS Office

Work Experience

Web3 Frontend Engineer Intern **April 2024 – Present**
Crypto-Arsenal *Hybrid*

- Implement Figma designs from UI/UX team, conduct code reviews, and participate in weekly Scrum meetings
- Utilize GraphQL to fetch data from databases and display developed components with mock data through Storybook
- Have developed and optimized 3 core Marketplace/Portfolio components and improved website usability by integrating the React Aria library

Global Teamwork Tech Intern **May 2023 – Jul. 2023**
Intel & EMQ X 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
- Collaborated with other interns to demonstrate the functionality of the protocol on the AIXBoard for an IoV scenario

Projects

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

- Led a team of 4 and utilized various endpoints of the Spotify API 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

Article Readability Classifier | *Python, NLTK, Pandas* **Mar. 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
- Collaborated in a team of 4 students in a 36-hour time constraint for the Hack the MIST Hackathon
- Incorporated the NLTK library and Flesch-Kincaid Grade Level measure to determine the readability of articles

Extracurricular Activities

Preparation for Research through Immersion, Skills, and Mentorship **Jan. 2024 – Apr. 2024**

- Collaborated in a team of 5 students on a research project evaluating the accuracy and generalizability of the Segmentation Anything Models (SAMs) and successfully delivered findings to peers and faculty

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

- Pair up with an experienced mentor to explore and discuss topics about the tech industry and actively contribute to leadership and teamwork workshops, enhancing effective collaboration and interpersonal skills