

Tony (Juntao) Hu

tony.jth07@gmail.com · +1 (647) 533-7988 · LinkedIn · GitHub · Toronto, ON

Education

- **Bachelor of Science in Computer Science and Linguistics**

September 2020–June 2025

University of Toronto · CGPA:

4.0/4.0

- **Relevant Coursework:**

Software Design,

Software Tools and Systems

Programming,

Computer Organization

- **Awards:**

University of Toronto Scholar

(2020 & 2021),

Sophie Joyce Kinch Scholarship

(2021),

Dean's List Scholar (2021)

Technical Skills

- **Programming Languages**

TypeScript, C, C++, Java, Kotlin,

Python, HTML, CSS, R

- **Other Skills**

Algorithms, Data Structures,

EJS, Git, GNU tools, jQuery,

MVC Architecture, Node.js,

React, Unit Testing,

Unix/Linux, Webpack

Relevant Experience

- **Computer Programmer**

May 2022–Aug 2022

University of Toronto; Toronto, ON

- Created 70+ frame sentences and organized experiment stimuli in CSV format to detect phonological patterns
- Processed audio recordings to create 120+ separate audio files and mass re-named them with regex
- Designed experiment website using JavaScript and EJS for use by 100+ participants
- Extracted and analyzed experiment data with R

Select Projects

- **Amigos**

Fall 2021

Friend-matching web app based on the Spring Boot framework written in Java (CS Course Project)

- Collaborated with 5 teammates to implement a web app, wiring back- and frontend with Spring and Thymeleaf
- Coded 5+ controller and model classes following the MVC Architecture
- Developed database to store users and programmed 5 data access interfaces
- Set up server and app deployment with Microsoft Azure, projected to store and process 1000 users

- **Autocorrect**

Winter 2021

A Python GUI program that suggests word autocorrection based on Levenshtein distance algorithm (CS Course Project)

- Implemented the BK-Tree algorithm for approximate string matching
- Implemented the Trie data structure as part of the Levenshtein automaton (with teammate), improving performance by 60%
- Designed a GUI with Tkinter to display 3 autocorrection results for each word

- **CliChA**

Fall 2020

A Python program that computes and visualizes a Climate Change Awareness Index using web scraping and NLP (CS Course Project)

- Implemented a web crawler with the Scrapy framework in Python and collected 600 megabytes of text data from major news sources

- **Translify**

Summer 2022

Python module that translates and summarizes text, with a TypeScript React frontend

- Designed and implemented frontend with React and TailwindCSS