

Gabriel Thompson

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SUMMARY

First-Year Computer Science student at the University of Toronto. Full-stack web developer, passionate about data science, music theory, and linguistics. Aspiring to pursue a career in computer science.

COMPUTER SCIENCE-RELATED EXPERIENCE

Research Intern – CUNY Graduate Center

May 2023 - present

- Participated in research internship with CUNY Graduate Center Linguistics Department under Prof. Kyle Gorman
- Worked on [Wikipron](#), a Python library for scraping pronunciation data from Wiktionary in 250+ languages
- Responded to GitHub issues on repository, wrote and published Python code included in library

Mentee – Google Mentorship Program

Feb 2022 - June 2022, Feb 2023 - Jun 2023

- Led team that is working with Google developer [Jeremy Espenshade](#) to create GPT-3 based AI chrome extension allowing users to write emails in their style using the OpenAI API. Back-end written in Python and Flask, front-end written in JS/HTML/CSS.
- Worked with a Google developer [Andy Zheng](#) over the course of three months to design a Chrome Extension to allow for public annotations on websites. [Link to project](#)

IT Director – Stuyvesant Writing Center

May 2022 - Jun 2023

- Single-handedly built and deployed full-stack website to manage school's Writing Center for 3,300+ students and 50+ editors across all four grades. Website built in Python, Flask, SQL, and JavaScript. [Link to project](#)
- Communicated with English department teachers and Writing Center executives.

Computer Science Department Editor – Math & CS Research

May 2022 - Jun 2023

- Managed department of 20+ writers. Reviewed and edited student-written articles for the Computer Science Department of my school's Math and CS research publication
- Communicated with department members, appoint department leaders.

Data Science Intern – Queens Public Library

Dec 2021 - Apr 2022

- Worked in team of high school students developing AskTeisha, an AI chatbot to help high school and college students find internships.

MISCELLANEOUS PERSONAL PROJECTS

- [Personal Blog](#) – My personal blog, where I wrote about CS & math-related topics that interest me
- [MIDI-based Vocal Harmonizer](#) – A Python tool for pitch-shifting vocals to MIDI files, using the [PSOLA algorithm](#). Built with NumPy and Jupyter Notebooks.
- [Layover Calculator](#) – Web app that uses data from the Yelp and Google Maps API to generate suggestions for things to do during flight layovers. Back-end written in Python, Flask, SQL, front-end written with Bootstrap, JavaScript, and Jinja. Built for Software Development class.
- [NameMC Discord Bot](#) – Discord bot that uses web scraping to allow users to ping the availability of Minecraft usernames. Built in Python and BeautifulSoup.
- [Efficiency Gap Calculator](#) – Python-based website that uses voting data to inform users on how gerrymandered their district is, using an algorithm called the "Efficiency Gap". Built for political writing class.

EDUCATION

2023 – now **University of Toronto**

First-Year, Bachelor of Arts in Computer Science

2019 - 2023 **Stuyvesant High School**

Activities and societies: CS Dojo, StuyHacks, Writing Center, Math & CS Research, StuyPy, STC Band, Concert Band, Symphonic Band, All-City Marching Band, Competitive Computing Club, Linguistics Club

RELEVANT SKILLS

Programming Languages: Python, Java, JS, HTML, CSS, Processing, Markdown, \LaTeX , Sonic Pi

Other Tools/Frameworks: Git/GitHub, SQL, Flask, Jinja, p5.js, Bootstrap, Foundation, BeautifulSoup