

Derek Song

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EDUCATION

Wilfrid Laurier University

Bachelor of Science in Computer Science, Minor in UX Design

Expected graduation: April 2027

Relevant topics: data structures, binary and AVL trees, discrete mathematics, agile design thinking, linear algebra

Waterloo, ON

September 2023 - present

EXPERIENCE

Council Administrative Assistant, Toronto City Council

April 2024 - present

City of Toronto

Toronto, ON

- Interviewed, analyzed, and visualized bike usage user experience data using **Python, Pandas, Plotly, Dash, and JSON** for City Councillor Jamaal Myers (<https://github.com/twotoque/BikeShare-ScarboroughNorth>)
- Conducted research and analysis on policy briefs, focusing on public transportation and local parking issues
- Designed event and policy graphics, including flyers, banners, and posters using **Adobe Illustrator/Photoshop** to enhance visual branding, took and edited photos using a **DSLR and Adobe Lightroom**
- Assisted in planning and marketing large-scale events, including a BBQ (1,000+ attendees) and volunteer appreciation event (125+ attendees, 5+ community groups)

Community Planner

November 2021 - August 2023

TTCriders

Toronto, ON

- Implemented a tool to calculate the total time lost due to the Line 3 Scarborough shutdown from a user-submitted form using **React, Next.js, and the Google Sheets API** (<https://github.com/twotoque/ttcLine3Calculator>)
- Developed a website to visualize the effects of bus delays using **HTML, CSS, JavaScript** (<https://github.com/twotoque/ttcCuts>)
- Designed, researched, and contributed to our Wheel-Trans and Line 3 Scarborough report using **Adobe InDesign**
- Made short-form videos using **Adobe After Effects and Premiere Pro**

PROJECTS

Toronto Census Visualizer | *Python, Pandas, Plotly, Dash, JSON*

July - October 2024

- View website: <https://torontocensusvisualizer.com>
- Full-stack website using Python to visualize 2021 Census data relative to Toronto's 158 neighbourhoods
- Traversed through GeoJSON and JSON data using Pandas, and used Plotly and Dash for the front-end

Atomic Search and Decay Calculator | *JavaScript, HTML, CSS*

May 2022, February 2024

- View Google Chrome extension: <https://decaycalculator.twotoque.com>
- Created for GryphHacks 2022 to search through the atomic table.
- Cleaned up code in 2024 using cleaner code practices, fixed bugs, released to Chrome Web Store

Laurier STEM Publishing Society Website | *WordPress, Cloudflare*

October 2024

- View website: <https://www.laurierstempublishing.com>
- Set up the domain, DNS, and backend for a self-hosted WordPress site

TransitBloom | *Figma, Adobe Illustrator*

December 2024

- View high-fidelity prototype: <https://lnkd.in/efgwte4H> | View business case: <https://lnkd.in/efiRQR7h>
- Worked in a team of 2 to research and design a sustainable and accessible transportation app using Figma
- Presented a business case to judges, highlighting market potential; won 2nd place in UX Laurier competition

TIFF-Tok | *React, JavaScript, TailwindCSS, Node.js, MongoDB, GitHub*

August 2024

- View project: <https://www.devpost.com/software/tiff-tok>
- Collaborated with a team of 4 at Hack the Six 2024 to develop a web app for attending film festivals with friends
- Managed UI and object-oriented analysis + design, developed front-end with React, assisted in database linkup

TECHNICAL SKILLS

Languages, Tools, and Frameworks: Python (Pandas, Plotly, Dash), Java, JavaScript, HTML, CSS, JSON, WordPress, Cloudflare DNS, GitHub, Git, QGIS | Learning C, Assembly, React

Design Tools: Adobe Photoshop, Illustrator, Lightroom, After Effects, Premiere Pro, Acrobat Pro, InDesign, Figma