

Derek Song

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EXPERIENCE

Graphics Administrative Assistant, Toronto City Council

April 2024 - Present

City of Toronto

Toronto, ON

- Conducted interviews with 15+ residents, surveyed 55+ individuals, and analyzed UX-focused bike usage data using Python, Pandas, Plotly, Dash, and JSON for City Councillor Jamaal Myers
- Optimized data retrieval through caching and efficient API usage in an interactive event map dashboard built with React, TypeScript, Flask, Firebase, and the Toronto Open Data API to present events and datasets
- Designed 70+ event and policy graphics with Illustrator, Photoshop, and InDesign, and captured 1,200+ photos using DSLR and Lightroom; materials reached 30,000+ households and increased community engagement by 20%
- Assisted in planning, brand development, and marketing major community events, including a 1,000+ attendee community barbecue and a holiday market involving 200+ guests and 15+ sponsors

Community Planner

November 2021 - August 2023

TTCriders

Toronto, ON

- Built interactive tools to calculate time lost from the Line 3 Scarborough shutdown from user-submitted data and visualize bus delay impacts using React, Next.js, Google Sheets API, HTML, CSS, and JavaScript
- Analyzed UX data from rider interviews and focus groups to research and design TTCriders' Wheel-Trans and suburban transportation report using Adobe InDesign
- Made short-form videos using Adobe After Effects and Premiere Pro, several surpassing 6,000+ views, 200+ engagements, and growing web traffic by 15%

PROJECTS

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

July - October 2024

- Created an interactive data dashboard with Plotly and Dash to render 2021 Census data across Toronto's 158 neighbourhoods, using Pandas to process GeoJSON and JSON data

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

May 2022 - February 2024

- Developed for GryphHacks 2022 to enable efficient atomic table search and decay calculations
- Refactored and debugged code in 2024 using modern best practices; published on the Chrome Web Store with 25+ daily users and a 5-star rating

Laurier STEM Publishing Society Website | *WordPress, Cloudflare*

October 2024

- Configured domain, DNS records, and backend infrastructure for a self-hosted WordPress site; optimized performance to handle 41,500+ requests and 2,250+ monthly visitors

TransitBloom | *Figma, Adobe Illustrator*

December 2024

- 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

YUlearn | *React, TypeScript, PostgreSQL, Next.js, Python, Plotly*

March 2025

- Collaborated with a team of 6 at the York University Lassonde BEST Startup Hackathon to develop a full-stack app to easily explain computer science topics to students, achieved 3rd place
- Designed UI mockups, performed object-oriented analysis, and developed front-end with React, forecasted future enrollment and market demand using a linear regression model in Python and Plotly

EDUCATION

Wilfrid Laurier University

Waterloo, ON

Bachelor of Science in Computer Science (Co-op Option), Minor in UX Design

September 2023 - Present

GPA 10.5/12 (3.8/4.0)

Relevant topics: Data Structures, Databases, Discrete Mathematics, Agile Design, Linear Algebra, Tree/Graph Theory

TECHNICAL SKILLS

Languages, Tools, and Frameworks: Python (Pandas, Plotly, Dash, Flask), Java, JavaScript, TypeScript, React, C, R, ARM Assembly, HTML, CSS, JSON, WordPress, Cloudflare DNS, GitHub, Git, QGIS, Firebase, SQL, Visual Basic
Design Tools: Adobe Photoshop, Illustrator, Lightroom, After Effects, Premiere Pro, Acrobat Pro, InDesign, Figma