

Katherine Ye

Design and developer, interested in the intersection of creativity and innovation.

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Experience

Co-Op Designer · JP Thomson Architects Ltd. June 2024 - Present

- Built company website, admin portal, and management system for easy and flexible user-based management of company information using HTML, JavaScript, CSS, C#, ASP.NET, and SQL Db.
- Managed social media accounts and content creation, leading to a 50% increase in engagement within one month.

Research Assistant · GenAI Impacts @ ISTEP May 2024 - Present

- Developing frameworks for the ethical usage and implementation of ChatGPT through usability testing of GenAI and LLM models (multimodal and chain of thought prompting) and analysis of GenAI architecture, supervised by Dr Qin Liu and Professor Greg Evans.

Tech Associate · IEEE University of Toronto May 2024 - Present

Logistics Associate October 2023 - May 2024

- Engineering and implementing embedded electrical systems for automated resistor dispenser and other systems
- Developing curricula for technical workshops, mentoring hackathon and workshop participants, and managing hardware inventory
- Collaborating with members to organize four hackthons with 5000+ participants

Co-Director · Y4Y Learning February 2022 - December 2023

- Led the facilitation of online peer tutoring, collaboration with sponsors and organizations, and management of six chapters at high schools across Ontario with 400+ tutors and students
- Sponsored by Pathways to Education

Education

University of Toronto September 2023 - Present

Computer Engineering BAsC, Machine Learning Minor

University of Toronto Schools September 2017 - June 2023

Skills

Programming Languages

Python, Java, C/C++/C#, HTML, CSS, Javascript, MATLAB, SQL

Libraries & Frameworks

React, Node.js, Keras, Pandas, NumPy, PyTorch, Tensorflow, SQLDB, Django

Tools & Platforms

Git, GitHub, Docker, Figma, Jupyter Notebook, Adobe Suite, Microsoft Office Suite

Selected Projects

Othello AI Bot

Intelligent algorithm that plays Othello using Monte Carlo Tree Search with 75% win rate, programmed in C

Rideshare application

Self-service multiplatform app for organizing carpooling between drivers and passengers, 200+ users.

tutori.me

Web-app supporting free peer tutoring for underrepresented communities network of 200+ high-school students.

Interests

Intersection between emerging technologies and other fields (art, education, social infrastructure), sustainable design, reading, visual art, hiking, tennis, cooking, word puzzles