

Katherine Ye

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EDUCATION

University of Toronto

Computer Engineering BSc, Machine Learning Minor

Toronto, Canada

Expected 2027

EXPERIENCE

JP Thomson Architects Ltd.

Co-Op Designer May 2024 – Aug 2024

- Designed company website, web admin, and project management system with dynamic CRUD, using REST API with 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.

ISTEP UofT

Research Assistant, GenAI Impacts May 2024 – Aug 2024

- Developed frameworks for the ethical usage of ChatGPT through usability testing and systematic analysis of GenAI and LLM models, supervised by Dr Qin Liu and Professor Greg Evans.
- Attended UnERD 2024 as a podium presenter.

IEEE UofT

Tech Associate April 2024 – Present

- Contributed to team projects, implementing electrical systems for an automated resistor dispenser and designing an arcade game/machine using C++ and python web socket programming on Raspberry Pi 4.
- Developed curricula for technical workshops, mentoring hackathon and workshop with 5000+ participants.

SELECTED PROJECTS

Multiplayer Arcade Machine

2024

- Arcade machine with multiplayer mode, built using Raspberry Pi 4, C++, raylib, and Python

Othello AI Bot

2024

- Created an intelligent algorithm that plays Othello using Monte Carlo Tree Search with 75% win rate, programmed in C

Tutori.me

2020-2022

- Created an application supporting free peer tutoring for underrepresented communities, with social networking features, live chat, and implementation with Zoom API for scheduling, built using MySQL, Django, Python, HTML, CSS, and JS.
- Served 200+ students, sponsored by Pathways to Education

OTHER WORK/AWARDS

Research *Gottfried Leibniz and AI Advancement*

June 2022

- Authored research paper Gottfried Leibniz and AI Advancement under the guidance of Stanford University professor Paula Findlen. Top 9% of papers, nominated for publication in the Pioneer Science Journal

Canadian Economics Olympiad *6th place, Distinguished Honor Roll (top 6%)*

March 2022

CMIMC Computer Science Competition *15th place*

April 2021

SKILLS

Programming Languages: Python, Java, C/C++/C#, HTML, CSS, Javascript, Swift, Typescript, Kotlin, MATLAB, SQL

Libraries & Frameworks: React, Node.js, Next.js, Keras, Pandas, NumPy, PyTorch, Tenserflow, SQLDB, Django, REST API

Tools & Platforms: Git, GitHub, Docker, Figma, Jupyter Notebook, Adobe Suite, Microsoft Office Suite