

Yuze (Lucas) Fu

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Toronto, Ontario, Canada

EDUCATION

- **University of Toronto** Sep 2023 - Present
Honor Bachelor of Science: Co-op Specialist in Mathematics and Computer Science (Comprehensive Stream) Toronto, Canada
 - **GPA: 3.98/4.00**
 - 2023 - 2024 University of Toronto Scholars
 - 2023 - 2024 University of Toronto Scarborough Dean's List
 - 2020 Second Prize in the National Olympiad in Informatics (NOIP2020)

EXPERIENCE

- **Teaching Assistant** Sep 2024 - Present
University of Toronto Scarborough Contract Part-time
 - Courses: Discrete Math (CSCA67H3), Linear Algebra I for Mathematical Sciences (MATA22H3)
 - Conducted **weekly tutorials** to reinforce course concepts through exercises and guided problem-solving
 - Held **weekly office hours** to support students, answering questions and clarifying complex topics
 - Assisted in **grading** quizzes, assignments and exam, providing **feedback** to enhance student performance
- **CMS Undergraduate Research Group** Sep 2024 - Present
University of Toronto Scarborough
 - Engaged in weekly seminars discussing **cutting-edge research** with a focus on **Generative AI**
 - Contributed by presenting and sharing personally curated research papers of interest
- **Academic Director** Oct 2024 - Present
Google Developer Group - UTSC Student Club
 - Organized an **AI workshop** on generative models for photo enhancement, handling materials and promotion.
 - Planned **Build with AI**, a conference with **700+ registrations**, emphasizing AI demos and networking opportunities
 - Created an **interactive emotion-matching game**, which enhanced engagement during the event

PROJECTS

- **MentorU – Mentorship Matching System** May 2024 - Aug 2024
An User Experience Design CSC396: Designing Systems (Coursework)
 - Developed an app interface using **Figma** to match university freshmen with mentors
 - Conducted **background research** through surveys and interviews to identify user needs
 - Improved user experience by iterating on the design through multiple **usability tests**
- **Statistical Analysis on Research Project Investments by the MCU** Mar 2024 - April 2024
An report based on a 20-year Dataset from Ministry of Colleges and Universities STAA57: Intro to Data Science (Coursework)
 - Analyzing and visualizing investment data with plots, graphs, T-test and Var-test using **RStudio**
 - Conducted data cleaning and data wrangling on a dataset (from open.toronto.ca) with **5521 entries**
 - Applied statistical models including bootstrap, linear regression, and logistic regression with **81.7% accuracy**
- **I'MENU – OCR and AI-Powered Restaurant Menu App** Oct 2023
An mobile app aiming to help the minority groups keep a healthy diet Hack the Valley 8 (Hackathon)
 - Collaborated with a team during a **36h** hackathon to create an app helping users better understand menus
 - Integrated **OCR** to scan and interpret menus, and used **OpenAI** to provide descriptions and recommendations
 - Used **Typescript** as front-end and **Python** as back-end
- **Automatic Lawn Sprinkler Irrigation System** Jul 2021
An machine learning model predicting the hydration of lawn Interl AI for Youth Express (Summer Camp)
 - Built the project in **48h** as the final project of the summer camp
 - **Labeled and trained** a dataset of lawn pictures capturing in-person and online
 - Implemented predictive algorithms **KNN** and **Dewarping** to optimize water usage based on hydration of lawn

SKILLS

- **Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, R, VB
- **Tools:** Figma, Git, VS Code, Office Suite, RStudio, OpenRefine, 3D-Modeling (Autodesk), Overleaf
- **Specialties:** Data structures and Algorithms (Competitive Programming Level), UI/UX design, Data Analysis
- **DS & ML:** Pandas, KNN (numpy), OpenCV (cv2), tidyverse, ggplot, decision tree, random forest