

XIYUE ZHANG

xiyuej.zhang@mail.utoronto.ca | xiyuezhang.gatsbyjs.io/

Main languages: Python, C, Javascript

Experience in Web Development, Machine Learning, NLP

WORK EXPERIENCE

Software Developer Intern

May 2022 – Aug 2023

IBM · ZDevOps Service Designer Team

Toronto, Canada

- Enhanced user experience of Service Designer by designing and adding new UI features
- Reduced manual web testing by creating a **Cypress suite of e2e tests** and **testing pipeline**
- Worked within Agile software practices and obtained **SAFe 5 Practitioner certification**

Undergraduate Researcher

May 2021 – Aug 2021

FORCOLAB · Hardware-Software Collaboration

Toronto, Canada

- Awarded NSERC USRA funding for summer research
 - Helped author paper "In the Age of Collaboration, the Computer-Aided Design Ecosystem is Behind: An Interview Study of Distributed CAD Practice" accepted into CSCW 2023
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PROJECTS

ClarityAI

Summer 2023

Research Project · AI4Good Lab

- Created website that measured interpretability through **feature importance analysis** of DNNs and **saliency and attention maps** of CNNs

simpleOS

Spring 2023

ECE353: Systems Software

- Created a simple OS from scratch using C that could deal with processes, threads, memory management, file systems, and synchronization

Reducing Gender Bias in NLP by Modifying the Optimization Objective

Fall 2022

Research Project · CSC2559: Trustworthy Machine Learning · [poster](#)

- Achieved **8+ times more** indirect gender debiasing compared to previous techniques
 - **Replicated debiasing techniques and measurements** from published papers using **PyTorch**
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EXTRACURRICULAR

Founder/President

May 2021 – present

Ethical Principles in AI Team (<https://ethical-principles-in-ai.github.io/>)

- Founded and **affiliated a new club** with University of Toronto, obtaining funding for technical projects for **75+ registered club members** and monthly events featuring guest speakers
 - Launched an ethical AI hackathon, AIHacks4Good, obtaining **affiliation with Major League Hacking (MLH)** and **250+ registrants** (<https://aihacks4good.github.io/>)
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EDUCATION

University of Toronto, Bachelor of Engineering Science

Sep 2019 – June 2024

Major in Machine Intelligence, Minor in Engineering Business

- Awards: Entrance Scholarship, Dean's Honour List, Troost ILead Summer Fellowship