

# XIYUE ZHANG

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Main languages: Python, C, Javascript

Experience in Web Development, Machine Learning, NLP

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## WORK EXPERIENCE

### Software Developer Intern

IBM

May 2022 – Aug 2023

Toronto, ON, 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

FORCOLAB · Hardware-Software Collaboration

May 2021 – Aug 2021

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

### CareCount

Summer 2023

iOS App · [github](#)

- Developed a self-care tracking **app for iOS using Swift** for frontend and **integrated Firebase** for real-time data storage and user authentication

### ClarityAI

Summer 2023

Python Library · AI4Good Lab · [github](#)

- Designed and published a Python package to help machine learning practitioners calculate attention and saliency maps of CNN models

### 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