

Zhi Ying Sun

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Objective

Computer Science student seeking a Software Engineering Internship for Summer 2021

Education

University of Toronto

Bachelor of Science, Computer Science, minor in Writing and Rhetorics

- **GPA:** 3.8/4.0
- **Relevant Coursework:** Object-Oriented Programming, Discrete Mathematics, Linear Algebra, Cryptology, Philosophy, Software Design, Theory of Computation, Systems Programming

Sep 2019 – Apr 2023
Toronto, ON, Canada

Technical Skills

Programming Languages: Python, C#, Visual Basic, HTML, CSS, React, Javascript, Java

Software & Tools: Git, GitHub, Adobe XD, LaTeX, Qualtrics, Django

Professional Experience

Research Assistant, *Intelligent Adaptive Interventions Research Group*

- Piloted replication project of a CHI paper; performed data analysis in **Python (numpy, matplotlib, pandas)** to analyze simulated data of 500 student participants
- Conducted survey coding for over 1200+ surveys responses to understand student motivation in an introductory computer science course; completed literature review for two papers for the CHI and SIGCSE conference
- Led **project management** for a diverse team of faculty members, and researchers; Implemented time-focused meeting agendas and asynchronous workflow to adapt to video conferencing

Apr 2020 – present
Toronto, Canada

Software Engineer, *Monitree Technologies Inc*

- Implemented MVP from concept through deployment using **HTML, CSS, Javascript, Bootstrap, JQuery**
- Learned and utilized front-end technology to program 40% of the Front-End for the investor-side application
- Worked with backend developer to integrate using JSON-formatted data to the **Flask** framework

May 2020 – Jul 2020
Toronto, Canada

Projects

Hypatia Summary MVP, *Hypatia Systems Project*

- Worked with a team of 5 to create and implement clean software design (Clean Architecture + SOLID principles) for the industry MVP project
- Built using **Python, Django, Django REST, SQLite, React**; Configured Python Server to communicate with Hypatia CheckMath API

Sep 2020

Blocky, *PyGame Project*

- Built using **PyGame** module in Python with the goal to familiarize with Object-Oriented Programming
- Modeled hierarchical data using trees, implemented recursive operations on trees, used inheritance to design classes according to a common interface

Mar 2020

Organisations

Research Opportunity Program, *Undergraduate Student Researcher*

1 of 3 second-year students selected to be a part of the Research Opportunity Program titled "Enhancing & Personalizing Technology by integrating Human-Computer Interaction, Psychology, & Statistical Machine Learning."

Technology Leadership Initiative

Top 25 students admitted to the 2020 Technology Leadership Initiative based on curiosity, grit, agility, and academic merit.

UT Coffee N' Code, *Co-President*

Co-founded an organization within the University of Toronto dedicated to connecting students interested in coding from different disciplines and skill-levels together to learn and collaborate.

Rewriting the Code, *Fellow*

Accepted as a fellow into an online community of college women in technology and engineering