

Zhi Ying Sun

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Education

University of Toronto

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

- **GPA:** 3.82/4.0

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

Sep 2019 – Apr 2023

Toronto, ON, Canada

Technical Skills

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

Software & Tools: Git, Django, LaTeX, React, Vue.js, Jira, Jenkins, BitBucket, Cypress

Professional Experience

Software Engineer Intern, *PointClickCare* [↗](#)

Jan 2021 – present

Research Assistant, *Intelligent Adaptive Interventions Research Group* [↗](#)

Apr 2020 – Sep 2020

Toronto, Canada

- 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

Software Engineer, *Monitree Technologies Inc*

May 2020 – Jul 2020

Toronto, Canada

- Accelerated the vision of the founders and bought it closer to a MVP in 2 months by reaching out to different product partners, iterate through over 20 pages of prototype quickly, and program 40% of the frontend for the investor-side application
- Worked along side backend developer to integrate the investor-side frontend with the Flask backend framework, sped up the integration process by introducing peer-coding and agile practices

Projects

Hypatia Student Summary, *Hypatia Systems Project* [↗](#)

Sep 2020

- Led sprints with a team of 5 to create and implement clean software design (Clean Architecture + SOLID principles) for the industry partner, Hypatia Systems
- Built using **Python, Django, Django REST, SQLite, React, Redux, Webpack, Babel**; Configured Python Server and **websockets** to communicate with Hypatia **CheckMath API**

Organisations

TOHacks, *Front-End Developer* [↗](#)

TOHacks aims to connect talented youth entrepreneurs, leaders and innovators with the top industry professionals in rising fields of new technologies.

Technology Leadership Initiative [↗](#)

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

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".

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