

# Rebecca Xu

📧 [rebbixu.me](mailto:rebbixu.me) ✉ [r25xu@uwaterloo.ca](mailto:r25xu@uwaterloo.ca) ☎ 647-303-3508 🌐 [rebbxu459](https://rebbxu459.github.io) in [Rebecca Xu](#)

## TECHNICAL SKILLS

---

**Languages:** Python, C/C++, Racket, JavaScript, HTML/CSS, MySQL

**Frameworks/Libraries:** Tailwind, React, Tensorflow

**Developer Tools:** Firebase, Flask, Git, Google Cloud Platform, VS Code, PyCharm, Anaconda, Linux

## PROJECTS

---

**SentiView** | *React, Tailwind, Flask, Cohere* December 2022 – Present

- Developed a full-stack application by working with CoHere API, successfully performing sentiment analysis and tokenization at DeltaHacks
- Incorporated advanced CSS animations and tailwind-css styles to elevate the user's experience
- Used a Flask server in the backend to host the CoHere API

**Personal Website Build** | *React, Javascript, HTML, CSS, Tailwind* December 2022 – Present

- Created a personal portfolio website from scratch using React.js
- Incorporated advanced animations and CSS styles
- Took advantage of Tailwind CSS framework, resulting in more readable code in complicated segments

**SiGnL** | *Python, Tensorflow, SSD mobilenet, OpenCV, Tkinter, Git* September 2022

- Developed a full-stack application using Tensorflow Object Detection API to employ transfer learning via SSD Mobilenet at Hack The North
- Consumes sign language from video call in real time, outputting it as audio and subtitles to all other meeting participants
- Trained the ML model using a Kaggle dataset for American Sign Language combined with images that the team took themselves
- Visualized GitHub data to show collaboration

**Here I Crumb!** | *Javascript, HTML, CSS, Python, Git, Chrome.storage API* July 2022

- Developed a Chrome Web Extension for efficient French studying at Hack The 6ix
- Published to the Chrome Web Store and is currently used by previous high school teachers to enrich French classes
- Implemented epoch time to ensure that user interface updates every day
- Used Python to process a 700-element wordlist into a workable array, and stored it using the chrome.storage API

**PuMP Website Build** | *Javascript, HTML, CSS, Python, Git* March 2021 - September 2021

- As a beginning web developer, worked in a team to develop a website for local charity Prospective Medical Professionals (PuMP)
- Worked closely with the website design team to achieve desired aesthetic
- Self-learned Javascript, CSS, and HTML over 1 month to be able to complete the whole project within 6 months

## EXPERIENCE

---

**Manager and English Tutor** April 2021 – May 2022

*Academic Assistance from a Distance*

*New Delhi, India*

- Spearheaded a NPO that brings free English tutoring to children from low-income households in India
- Over its months of operation, AAD expanded to over 100 tutor-student pairings and partnered with 3 large literacy organizations in India
- Tutored a young Indian girl online weekly, resulting in evident improvement and her passing the English exam in 2022
- Managed the social media accounts, posting regularly to increase the organization's influence

**Coding and 3D Printing Instructor** June 2022 – August 2022

*TAC Sports Summer Camp*

*North York, ON*

- Led and taught groups of 20 youth aged 7-12 in elevating their coding and CAD prowess
- Developed engaging lessons plans for varying levels of experience using TinkerCAD, Python, Java, and Scratch
- Delivered tailored feedback to students and parents resulting in many returning campers to the program

## EDUCATION

---

**University of Waterloo**

*Bachelor of Computer Science*

Waterloo, ON

*Sept. 2022 – April 2027*