

# Amanda Xi

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## Skills

**Languages:** Java, Python, JavaScript/Typescript, HTML/CSS, Racket  
**Frameworks:** React, MySQL, Sass, Bootstrap, Java Swing, Pygame  
**Tools:** Linux Shell, Git, Docker, OpenCV, Adobe Suite (Photoshop, Illustrate, Animate, Premiere Pro), Canva, Vite, Figma

## Education

**BCS    University of Waterloo, 4.0 GPA**, Computer Science, Sept 2024 - Apr 2029

- **Ted Rogers Future Leaders** Scholarship
- **Cheese Club President:** Manages executive team and leads club activities, demonstrated strong **interpersonal** and **public speaking** skills.

## Work Experience

**Kumon**, Early Learners Assistant    Oak Ridges, ON  
July 2023 - June 2024

- Tutored children aged 4-8 in math, reading, and writing
- Exemplified outstanding **adaptability**, **professionalism**, and **problem-solving**

**NoFrills**, Cashier and Customer Service    Richmond Hill, ON  
July 2022 – Jan 2023

- Developed ability to **work under pressure**, **resolve conflicts**, and **communicate** effectively with clients and colleagues

## Projects

**Portfolio Site**    Jan 2025

- Skills learned: responsive design, interactive features, site deployment
- Tools Used: **React**, **Vite**, **Typescript**, **HTML**, **CSS**, **Figma**

**Huffman Compression System**    Jan 2025

- Java program to compress files using Huffman frequency encoding
- Developed **data structures** (binary tree, priority queue, linked list) from scratch
- Tools Used: **Java**

**VoiScribe**    Sept 2024

- HackTheNorth project: Implemented lip-reading and text-to-speech **API** to create application for speech-impaired individuals
- Tools Used: **Python**, **OpenCV**

**Games**    2022 - 2023

- Skills learned: Object-oriented programming, sound design, sprite art
- Tools Used: **Python (Pygame)**, **Java (Swing)**

## Awards

**Governor General’s Academic Medal**    July 2023 - June 2024

- Achieved **highest grade 11/12 average** in RHHS class of 2024

**EIPMA Student Film Winner**    June 2024

- Managed production and directed Vaughan Film Festival **1st place short film**

**TMU CanHack**    March 2022

- Executed web/database exploits in HTML & PostgreSQL, **1st place school in Canada**

**Other**

- Received **level 5** on 3 **AP exams**: English Lit, CSA (Java), CSP
- Waterloo CEMC: Group 5 (**Top 2%**) in Cayley 2022, **Top 25%** in Euclid 2023, CSMC 2022, CCC 2024 Sr
- Successfully completed Waterloo **QSYS 2024** Quantum Computing program