

# Amanda Xi

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## Skills

**Languages:** Java, Python, JavaScript/Typescript, HTML/CSS, Racket, SQL  
**Frameworks:** React, MySQL, Flask, Sass, Bootstrap, Java Swing, Pygame, Phaser  
**Tools:** Linux Shell, Git, Docker, OpenCV, Adobe Suite (Photoshop, Illustrate, 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 team of **6 executives**, leads club activities for **100+ members**, demonstrated strong **interpersonal** and **public speaking** skills.

## Projects

**Portfolio Site** [🔗](#) Jan 2025

- Designed and deployed responsive portfolio website with interactive **UI/UX features**
- Leveraged **React**, **Vite**, and **TypeScript** to create dynamic components and seamless navigation
- Applied **Figma** for wireframing and prototyping, **Github Pages** for site deployment

**Refyne** [🔗](#) Jan 2025

- Built an **AI-powered** behavioral interview training app during UofTHacks 12 (36 hours)
- Developed a **React** frontend and connected it to a **Flask** backend powered by **Python** and **OpenCV**
- Integrated **OpenAI Whisper** and **GPT-4o APIs** to analyze user speech

**Huffman Compression System** [🔗](#) Jan 2025

- Engineered a file compression program in **Java** using Huffman **frequency encoding**
- Built **custom data structures** (binary trees, priority queues, and linked lists) to optimize encoding

**VoiScribe** [🔗](#) Sept 2024

- Created an **accessibility tool** during HackTheNorth (36 hours) by implementing lip-reading and a text-to-speech API, enabling effective communication for speech-impaired users.
- Optimized **API calls** and leveraged **OpenCV** to achieve **90% accuracy** in real-time lip reading using **Python**.

**Games** [🔗](#) 2022 - 2023

- Designed and programmed interactive games, highlighting proficiency in **object-oriented programming**, **sprite design**, and **sound design**
- Implemented game mechanics and intuitive interfaces using **Pygame**, **Java Swing**, **Javascript Phaser**

## 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**

## Awards

**Governor General’s Academic Medal** 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