

# Annie Guo

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## SKILLS

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**Languages:** Javascript, Python, C, C++, SQL, HTML, CSS, Bash, PHP, LaTeX

**Developer Tools:** React, Node, GSAP, Figma, Git, MySQL Workbench, Jupyter Notebook, OpenCV

## PROJECTS

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### UW Connect [↗](#)

Javascript, HTML, CSS, React, Node, SQL, MySQL Workbench, Figma

- A social media platform that connects students through activities offered at the University of Waterloo
- Developed a secure login/sign-up page connected to a **MySQL** database
- Designed scalable and interactive **SVGs** using **Figma**, implemented animation effects using **GSAP**, and created frontend pages through **ReactJS**, providing a seamless user experience

### iSpy Facial Detection System [↗](#)

Python, OpenCV

- Implemented a real-time webcam system with **facial recognition** capabilities using **XML** data from **OpenCV's** frontal face machine learning model
- Preprocessed the images with **Python**, increasing detection accuracy by **80%**

### 2187 Interactive Webgame [↗](#)

Javascript, HTML, CSS

- A popular game of 2048 but with multiples of 3, utilizing **array data structures** to represent the game board and displaying it through a **GUI** created with a combination of **HTML/CSS** and **JavaScript**
- Implemented the game logic, score tracker, and an **event-driven input system** using **JavaScript**

### Animated Website for E-Commerce [↗](#)

Javascript, HTML, CSS, Blender, GSAP

- Created a website inspired by Apple using popular animation techniques such as **scroll trigger animation**, the **parallax effect** and **image carousels** to create more interactive and engaging media for users

### UW Data Science Hackathon [↗](#)

Python, Jupyter Notebook, Pandas

- A **Python** script written in **Jupyter Notebook** which preprocesses a complex dataset of **CSV** medical documents for **ML** classification by removing irrelevant information such as punctuation and performing spell correction

## EDUCATION

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### University of Waterloo

Waterloo, ON

Bachelor of Computer Science

2022 - Present

- President's Scholarship of Distinction (2022)
- Relevant Coursework: Object-Oriented Software Development, Honors Linear Algebra, Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development

## WORK EXPERIENCE

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### Skate Oakville

Oakville, ON

CanSkate Program Assistant

2016 - 2020

- Taught ice skating fundamentals to beginners as part of a **nationwide learn-to-skate program**
- Demonstrated **strong communication and interpersonal skills** by addressing questions from program participants and their families and encouraging a **positive** learning environment
- Planned and set up activities for the program, including **organizing** equipment and **cooperating** with other instructors

## OTHER

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**Dialects:** Fluent in English and Mandarin

**Certifications & Training:** CS50x Introduction to Computer Science, DevEd Javascript Animation Course

**Awards:** National Center for Women & Information Technology Award for Aspirations in Computing (2022), Top 10 in Ontario for Novice Women's Figure Skating (2020)