# **JENNIFER YU**

💌 jennifer.yu2@uwaterloo.ca | 🛅 in/jennifer-yu-on | 🖸 github.com/JenniferYu-8 | 🏶 jennifer-yu.vercel.app

#### SKILLS

Languages: Java, Python, C, HTML, CSS/SASS, JavaScript, TypeScript, Dart

Tools/Frameworks: React, Next.js, Tailwind CSS, Flutter, Figma, Git, Firebase, SQL, Flask, OpenCV, TensorFlow, Keras, Scikit-learn, dlib

#### **EDUCATION**

## **UNIVERSITY OF WATERLOO |** *GPA: 4.0/4.0*

Sept. 2024 - Apr. 2029

Software Engineering, Honours, Co-operative Program

Awards: Arthur F. Church Entrance Scholarship for Women in Engineering, President's Scholarship of Distinction Activities/Societies: Wat.ai (Core Researcher), Waterloo Engineering Society (Website Director), SE Society (Class Rep)

## **EXPERIENCE**

### **SOFTWARE ENGINEER TEAM LEAD**

July 2021 - Present

Bit by Bit Coding

- Assembling and overseeing a team of 8 software developers ranging from entry-level to graduate-level experience.
- Developing interactive demos with HTML, CSS, & JS that have taught 1000+ middle schoolers—from 8 countries—to code.
- Providing team members with feedback on the **UI/UX** of the demos to facilitate learning for middle school students.
- Assisting Executive Leadership with designing the new interview process for prospective Software Engineer Team members.

# **UNDER-SECRETARY-GENERAL (USG) OF TECHNOLOGY**

Dec. 2022 - Aug. 2024

Canada Model United Nations (CANMUN)

- Designed and developed the official responsive CANMUN website from scratch using HTML, CSS, and JavaScript.
- Collaborated with 70+ staff members to organize the 1st iteration of the 3-day nationwide conference for 300+ delegates.
- Communicated with the 19 members of the Secretariat to promptly update the website's information and ensure accuracy.
- Achieved over 10,000 monthly pageviews, delivering a reliable and engaging platform for 500+ stakeholders.

**CO-CHAIR** May 2022 - June 2024

York Region Hacks (YRHacks)

- Led a team of 15 students—from 9 different schools—to organize the largest annual high school hackathon in Canada.
- Provided 1000+ students—cumulatively over 3 years—from 25+ schools, with the opportunity to experience a hackathon.
- Organized 30+ workshops to educate participants on computer science topics such as cybersecurity and app development.
- Coordinated with administrative staff from 8+ schools to ensure a safe event in compliance with school board policies.

# **PROJECTS**

G.L.A.S.S.E.S. 🖸 | Python, Flask, React, JavaScript, Raspberry Pi, Git, Shazamio, textyl.co API Design Project

Oct. 2024 - Dec. 2024

- Designed and developed smart glasses with a built-in display and live audio recording to detect songs and display lyrics.
- Collaborated with the team to cohesively integrate the Raspberry Pi, display module, React mobile app, and servers.
- Integrated song recognition and real-time lyric synchronization while enabling smooth scrolling text display on the OLED.

REMBERU [ | Flutter, Flask, Firebase, OpenCV, Gemini API, Symphonic Labs API Hack the North

Sept. 2024 - Sept. 2024

- Developed an **Al-powered social interaction device** that uses lip-reading and facial recognition to recall conversations.
- Integrated Gemini and Symphonic Labs APIs to lip-read, transcribe, and concisely summarize conversations in real-time.
- Acquired proficiency in Flutter and Firebase—within a short development cycle—through hands-on implementation.

**FACIAL EMOTION DETECTION** □ | Python, TensorFlow, Keras, OpenCV, Scikit-learn, dlib

July 2023 - Aug. 2023

Inspirit AI

- Tested and evaluated multiple machine learning models, including k-NN, logistic regression, and decision trees.
- Implemented a multilayer perceptron, achieving over 74% accuracy across 5 emotion categories & winning "Best Project."
- Integrated real-time video processing capabilities with the MLP model, enabling immediate facial detection.