

# JENNIFER YU



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in/jennifer-yu-on

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## SKILLS

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Java, Python, C, HTML, CSS/SASS, JavaScript, UI/UX, OpenCV, Flutter, Attention to Detail, Adaptability, Teamwork

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## EXPERIENCE

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### SOFTWARE ENGINEER TEAM LEAD

July 2021 - Present

#### *Bit by Bit Coding*

- Assemble and oversee a team of 8 software developers with a diverse range of programming experience
- Develop interactive demos with DHTML that have taught 1000+ middle schoolers—from 8 countries—to code
- Provide team members with feedback on the UI/UX of demos to facilitate learning for middle school students
- Assist Executive Leadership with designing the new interview process for prospective Software Team members

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

Dec. 2022 - Aug. 2024

#### *Canada Model United Nations (CANMUN)*

- Designed and developed the official CANMUN website using HTML, CSS, and JavaScript (DHTML)
- Collaborated with 70+ staff members to organize the first iteration of the 3-day nationwide conference
- Communicated with the 19 members of the Secretariat to promptly update the website's information
- Achieved over 10,000 monthly pageviews and provided a robust platform for over 500 participants
- Enhanced conference visibility online by creating TikToks and Instagram Reels, generating over 2 million views

### CO-CHAIR

May 2022 - June 2024

#### *York Region Hacks (YRHacks)*

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

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## PROJECTS

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### REMBERU | *Flutter, Flask, Firebase, OpenCV, Gemini API, Symphonic Labs API*

Sept. 2024 - Sept. 2024

#### *Hack the North*

- Incorporated Symphonic Labs' API for lip-reading, enhancing real-time text transcription in loud environments
- Integrated the Gemini API to summarize transcriptions, providing concise and relevant information to users
- Acquired proficiency in Flutter and Firebase within a short development cycle, despite initial inexperience
- Received an Honourable Mention from Web Summit

### FACIAL EMOTION DETECTION | *Python, TensorFlow, Keras, OpenCV, dlib, Matplotlib*

July 2023 - Aug. 2023

#### *Inspirit AI*

- Tested and evaluated multiple machine learning models, including KNN, logistic regression, decision trees
- Implemented an MLP model, achieving over 74% accuracy across multiple emotion categories
- Integrated real-time video processing capabilities with the MLP model, enabling immediate detection
- Awarded "Best Project"

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## EDUCATION

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### UNIVERSITY OF WATERLOO

Sept. 2024 - June 2029

#### *Software Engineering, Honours, Co-operative Program*

**Awards:** Arthur F. Church Entrance Scholarship for Women in Engineering, President's Scholarship of Distinction