

Angela Huang

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Education

Bachelor's in Biomedical Engineering

Sept 2024 – Apr 2029

University of Waterloo - Waterloo, Ontario

Skills

Programming Languages: C#, C++, HTML, CSS, JavaScript, MATLAB, Python, SQL, Java

Technologies: SolidWorks, git, Unity, Adobe Photoshop, Microsoft SSMS

Experience

Marketing Lead

Biotechnology and Bioengineering Conference - Waterloo, Ontario

uwbiotec.ca

Nov 2024 – Present

- Designed uwbiotec.ca, focusing on improving UX with user-centred design to make a readable and accessible site
- Created social media posts reaching XX amount of unique viewers promoting bioTEC, Canada's top student-run health and technology conference

Biophotonics Lab Research Assistant

McMaster University Engineering Physics - Hamilton, Ontario

Feb 2024 – June 2024

- Developed stress-testing strategies for AI cameras for the remote monitoring of physiotherapy exercises
- Created an SQL database to catalogue 58 lab computers within the McMaster Biophotonics Group, improving the ease of identifying which computers are best suited for certain tasks

Skating Coach

Hamilton Skating Club - Hamilton, Ontario

Aug 2023 – Present

- Leveraged leadership skills to plan lessons to coach 100+ skaters on the ice and off the ice

Projects

Skatelligence: AI-Powered Figure Skating Analysis

Skatelligence.ca

- Collected data to train a Recurrent Neural Network using LSTM units to classify figure skating jumps from linear acceleration and angular velocity readings with over 80% accuracy
- Led front-end development of Skatelligence.ca, creating dynamic features, interactive navigation, and custom graphics and animation to showcase the project
- Designed the UI/UX for Skatelligence.ca ensuring a fully responsive design on all devices

Keyflow Assist: Cerebral Palsy Piano Physiotherapy System

- Conducted literature review to design a device which makes piano playing as a form of physiotherapy accessible to cerebral palsy patients
- Engineered a support device which effectively relieves the strain on the shoulder muscles while playing piano in 100% of tests and was rated an average of 4/5 for comfort on a Likert scale

Accomplishments

- 4x National Figure Skating competitor, 11th at the 2023 Novice National Championships
- DELF B1 French Certificate (91.5)
- RCM Level 10 Piano Practical and Harmony

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