

Braden Wei

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EDUCATION

McGill University

Sep 2023 - Apr 2027

B.Sc. Statistics and Computer Science

Montréal, QC

- Courses: Intro. to Computer Science, Intro. to Software Systems, Intro. to Computer Systems, Honors Calculus

EXPERIENCE

McGill Engineering Techfair

Sep 2024 - Present

Volunteer

Montréal, QC

- Assisted in organizing and coordinating a bi-annual career fair connecting over 100 top employers with students in engineering, computer, and life sciences, facilitating networking and career opportunities.
- Supported event logistics and operations, ensuring a seamless experience for both employers and students, and enhancing engagement through on-site support and problem-solving.

McHacks

May 2024 - Present

Logistic Team and Sponsorship

Montréal, QC

- Developed and managed the budget for McGill University's largest hackathon, overseeing financial planning and resource allocation for an event with **600+ participants**
- Coordinated detailed event logistics, including managing catering services, securing and liaising with sponsors, and organizing merchandise distribution
- Contacted and negotiated with leading tech companies, **including Bell, Amazon, and Telus**, tailored sponsorship packages, and finalized contracts to support event funding and resources. We have secured **over \$550,000 in sponsorships** since 2014.

McGill AI Society

Jan 2024 - Apr 2024

MAIS 202

Montréal, QC

- The MAIS 202 bootcamp is an accelerated survey course which aims to teach lower-year undergraduates the fundamentals of machine learning
- Accelerated Introduction to Machine Learning, covering foundational ML concepts such as **KNN, gradient descent, and neural networks** through lectures and hands-on projects
- Gained experience in ML workflows, including model training, evaluation, and deployment, with practical exposure to real-world applications and industry-standard practices

AWARDS & PROJECTS

Outfit Recommendation System

Dec 2023 - May 2024

Machine Learning Project

- Developed an AI-powered outfit recommendation system leveraging **KMeans clustering** for color extraction and matching, automating personalized fashion recommendations based on color compatibility.
- Applied advanced machine learning and image processing techniques using **Python, OpenCV, and Scikit-learn** to analyze clothing images, classify garments, and recommend complementary outfit combinations.
- Engineered a color-matching algorithm and implemented visual outputs through data visualization, enhancing user experience by displaying color compatibility via interactive pie charts.
- Displayed the project by integrating **React** and other front-end frameworks to build a dynamic user interface, facilitating seamless interaction with the recommendation engine and providing real-time feedback.

Chinese Sign Language interpreter

June 2024 - Present

Computer Vision & Machine Learning Project

- Developed a real-time sign language interpreter using **Mediapipe and TensorFlow**, implementing **holistic tracking** to capture facial, body, and hand landmarks for accurate gesture recognition.
- Engineered a robust **LSTM neural network** for action classification, achieving **100% accuracy** in detecting Chinese sign gestures and translating to English utilizing a dataset of **30 sequences** per action.
- Created a user-friendly interface to visualize predictions and probabilities in **real-time**, enhancing accessibility for users by converting sign language gestures into text output through an interactive video feed.

Euclid Math Contest

University Of Waterloo

Distinction Award

2021-2023

- Scored in **top 7%** in 2021 out of **15000+ contestants**.
- Placed **top 25%** in 2021, 2022 and 2023.

TECHNICAL SKILLS

Languages: Python | Java | C++ | C | JavaScript | SQL | HTML/CSS | Typescript | Swift

Technologies: React.js | Bootstrap | Pytorch | Tensorflow | Panda | Node.js | Django | Angular | Unix/Linux