Braden Wei

Education

McGill University Expected 2026

B.Sc. Computer Science and Statistics

o Coursework: Software Systems, Operating Systems, Data Structures, Statistics, Honors Calculus

Experience

Roomiez Montréal, QC

Software Engineer Nov 2024 - Present

- Designed and developed a cross-platform mobile app using React Native and Expo to help university students find compatible roommates more efficiently.
- Built backend services with **Express.js** and integrated **Firebase Realtime Database** for seamless, real-time data sync between users.
- Implemented **Firebase Authentication** to securely manage user sign-up, login, and session state across platforms (iOS and Android).

McGill AI Society

Montréal, QC

Software Engineer Jan 2024 - Apr 2024

- Built a custom library to preprocess image datasets, integrate feature extraction pipelines, and implement multi-label classification using convolutional neural networks (CNNs). Deployed the model via an API for real-time recommendations, incorporating scalability and modularity for future development
- Developed a clothing recommendation system as part of the program, leveraging PyTorch and TensorFlow for model develop- ment and training. Utilized computer vision to classify clothing styles and recommend personalized outfit combinations to users

Awards & Projects

Instagram Business Order Automation

project link

- Developed an automation system to streamline order processing for Instagram businesses by identifying orders in messages and generating receipts for each order. Built with Typescript/React frontend and Python backend for API calling and server management
- Utilized ChatGPT API for AI-powered order extraction and React Flow for a visual workflow automation interface.

MediSign

- Engineered a real-time sign language interpreter using **Mediapipe and TensorFlow**, utilizing holistic tracking to capture facial, body, and hand landmarks for accurate gesture recognition
- Developed a LSTM neural network for action classification, achieving 95% accuracy in detecting medical sign languages and translating them to English, based on a dataset of 30 sequences per action

Hack McGill May 2024 - Present

- Developed and managed the budget for McGill University's largest hackathon, ensuring efficient financial planning and resource allocation for an event with over 600+ participants
- Coordinated event logistics, including managing catering services, securing sponsorships, and organizing merchandise distribution
- Negotiated with leading tech companies such as **Bell, Amazon**, and **Telus**, crafting tailored sponsorship packages and securing contracts, contributing to over \$550,000 in sponsorships since the event

Euclid Math Contest

- Scored in the top 7% among 15000+ contestants in 2021
- $\circ\,$ Placed top 25% in 2021, 2022 and 2023

Technologies

Languages: Java, Python, TypeScript, SQL, JavaScript, C++, C

Technologies: Node.js, React.js, React Native, Pytorch/Tensorflow, Express.js, Django, Angular, Unix/Linux