

# Brianna Fan

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## EDUCATION

### McGill University

BSc Computer Science - Concentration in Artificial Intelligence, Minor in Statistics

Montreal, QC

Aug. 2022 – May 2026

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, JavaScript/EJS, TypeScript, HTML/CSS, Bash

**Libraries/Frameworks:** ReactJS, Node.js, Express.js, Flask, Tailwind CSS, jQuery

**Developer Tools:** Git, VS Code, IntelliJ, Eclipse, Figma

## EMPLOYMENT

### Functional Analyst Intern

June 2023 – Aug 2023

PSA BDP

Philadelphia, PA

- Worked with the **Microsoft Dynamics AX** application, identifying and resolving data storage errors
- Collaborated with finance teams across international locations to address and rectify billing discrepancies found using Dynamics AX
- Assisted in the execution of **SQL** scripts to streamline data updates and facilitate migration to a newer database

## PROJECTS

### RecipEase

Sep 2023 – Aug 2024

- A personalized recipe recommendation system that utilizes a sentence transformers model and leverages **natural language processing** techniques
- A full-stack **Python** application with **HTML/CSS** for the frontend and **Flask** for the backend
- Utilized a **Kaggle** dataset with **180K+** entries
- Reworked in Aug 2024: Organized file structure and refined frontend design with **Bootstrap**

### Pipeline CPU

April 2024

- Designed an instruction RAM, ALU, CU, and data RAM for a CPU that can address up to 8 instructions
- Created the CPU from scratch using only flip flops, logic gates, and multiplexers using **Logisim Evolution**

### Platform Game

Jan 2024

- Developed a platform game with **Python** and **Pygame** in collaboration with two teammates for McHacks
- Utilized object oriented programming

### Survival Path Finder

Dec 2023

- Utilized elements of graph theory, algorithm design, and data structures to design optimal paths on a 2D grid using **Java**
- Implemented Depth-First Search, Breadth-First Search, weighted graphs, priority queues, and Dijkstra's algorithm

## INVOLVEMENT

### McGill Women in Computer Science | Hackathon Director

April 2024 – Present

- Working on the executive team to plan the upcoming 2025 McGill Women in Computer Science hackathon

### McGill Biomechanics

Nov 2023 – Present

- Working on the frontend with **React.js** for an exoskeleton which would identify and suppress tremors caused by Parkinson's disease using AI
- Contributed **100+ lines** of code to frontend components including a line graph that will display real time data
- Exoskeleton project was accepted into the semi-finals of **Microsoft Imagine Cup**

### McGill Artificial Intelligence Society 202 Bootcamp

Sep 2023 – Dec 2023

- Engaged in weekly lectures and completed assignments covering topics such as Decision Trees, Regression, MLP, CNN, RNN, Attention & Transformers, and GANs
- Used **NumPy**, **Matplotlib**, and **PyTorch**

## AWARDS/CERTIFICATIONS

**Level 10 Piano Honors** | *The Royal Conservatory of Music*

July 2021

**3rd Runner Up** | *Distinguished Young Women, York*

July 2021