

Spencer McMurray

Computer Science Student

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Experience

Ceridian - Dayforce 8 months

Software Developer Intern

Sept. 2019 - Dec. 2019 & Sept. 2020 - Dec. 2020
Agile Development / C# / .NET / JavaScript / MVVM

- Worked in an **Agile** team to develop the Performance system, used by **millions** of people worldwide
- Optimized caching code to **save users thousands of hours** of staring at loading screens annually.

Top Projects

Minecraft Multi-Instance Macro

Python / OBS Websocket / Win32 / AutoHotkey

Macro for running multiple instances of Minecraft to optimize speedrunning

- Used by **thousands of players** to save **over hundreds of hours daily** spent looking at loading screens.
- Utilized **Process Suspension, CPU Affinity and Working Set Size** to minimize hardware requirements.
- Interacted with **hundreds of users** to efficiently solve any issues they might have.

AutoTab

React / Next.js / Flask / Azure / Firebase / MySQL / MongoDB

System for fast tabulation of Irish Dance competitions with Computer Vision

- Modernized handwritten tabulation, using **Azure's Computer Vision** to **increase speeds by over 300%**
- Interfaced with Google's **Firebase Authentication** to provide a simple and secure user experience

Personal Website

Typescript / React / Next.js / Serverless / GitHub API

Personal site to introduce myself and show off my top projects

- Developed **Serverless Functions** to fetch my repos and their stats using the **GitHub API**
- Integrated dark-mode toggle with support for easily changing themes using React's **Context API**

Education

University of Toronto, St. George

Honours Bachelor of Science in Computer Science

Sept. 2017 - 2022

- Specializing in **Artificial Intelligence, Computer Vision, and Game Design**

Skills

- **Languages:** TypeScript/JavaScript, Python, C#, Java, PHP, SQL, C
- **Technologies:** React, Next, Flask, Node, Express, Git, Nest, Firebase, MySQL, MongoDB, Unix, UML