Iain Mcilveen

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EDUCATION

Bachelor of Science Honour's, Computer Science (Co-op), **CGPA: 11.4/12 (A)**

Carleton University, Ottawa, ON   September 2018 - April 2023

- Awarded 12,000$ entrance scholarship
- Currently learning systems programming, programming paradigms, algorithm time complexity, fundamental data structures and web development

SKILLS

- Proficient in several programming languages including: **Python**, **Java**, **JavaScript**, and **C**
- Experienced in designing and implementing scalable **REST APIs** using **Node.JS** and **Express**
- Presently learning **React** to create interactive web pages, and **MongoDB** to be used as a data store

EXPERIENCE

Teaching Assistant

Carleton University, Ottawa, ON   September 2019 – December 2019

- Held office hours, answering questions and helping students gain an improved understanding of the core fundamental programming concepts
- Led tutorials, explaining programming concepts in front of a group of students and correcting any problems students encounter
- Worked with a team of other Teaching Assistants to complete marking and give feedback in a timely manner

Open House Volunteer

Carleton University, Ottawa, ON   February 2019

- Volunteered at the Carleton University Fall open house to help answer student questions about Carleton's Computer Science program

PROJECTS

- Made use of object-oriented programming techniques in **Java** such as inheritance and polymorphism to create an efficient and scalable 2d game engine
- Developed an image gallery web application using **HTML**, **CSS**, **JavaScript**, **Node.JS** and **Express** designed to dynamically display a series of images and gain a further understanding of client-server communications and REST APIs
- Designed finite state machine based artificial intelligence in **Python** and **Pygame**, to compete in competitions against other similarly designed AI