Iain Mcilveen

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EDUCATION

Bachelor of Science Honour's, Computer Science (Co-op), CGPA: 11.42/12 (A)

Carleton University, Ottawa, ON

September 2018 - April 2023

• Currently learning about software engineering, programming paradigms, relational and non-relational databases, algorithm time complexity, fundamental data structures and web development

SKILLS

- Proficient in several programming languages including: Python, Java, JavaScript, C, C++, and Scheme
- Experienced in Front-End web development using HTML, CSS, and JavaScript as well as React to write interactive web
 applications
- Wrote the Back-End for web applications using Node.js and Express to design and implement scalable REST APIs and
 made use of SQL database management systems such as PostgreSQL, Oracle to store information
- Implemented several advanced data structures in **Java** with performance considerations in mind to find more efficient solutions to problems

EXPERIENCE

Application Developer

Statistics Canada, Ottawa, ON

June 2020 - Present

- Created and Improved internal tools used by many different clients within Statistics Canada. This meant I had to be able to work with clients to create the programs to suit their needs
- Made use of Oracle to design and create new tables to store data which could then be accessed by the users in UI elements which I made in VB.net

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

PROJECTS

Online Book Store

https://github.com/lainMcilveen/comp3005pg

- This was my final project for my Relational Databases course and is a full-stack web application which is designed to be the online platform for a bookstore.
- I made use of PostgreSQL to store book, user and order information, and Node.js and Express for the Back-End. For the
 frontend, I made use of the Pug templating engine which used information the database to generate unique pages for the
 users.

Who's That Pokémon

https://github.com/lainMcilveen/Whos-That-Pokemon

- Who's That Pokémon is a web application inspired by the Original Pokémon cartoons which quizzes the user and was written for the CUhacking 2020 hackathon.
- This is a web application written in **React** which is designed to work well on mobile devices. I made use of the **Hooks API** within React to save the quiz state and determine whether the user answered correctly or incorrectly.