

# Jeremy Friesen

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## EDUCATION

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### Computer Science Artificial Intelligence and Machine Learning Stream B.C.S. Honours

Carleton University, Ottawa, ON

September 2022 - Present

- Second year standing, CGPA of 10.75 out of 12 (89.5% achieved, letter grade of A)
- Major CGPA of 11 out of 12 (91% percent achieved, letter grade of A+)
- Honorary member of the Dean's honour list for academic excellence
- Awarded the Harry S. Southam in-course scholarship valued at 2,000\$
- Expected Graduation Date: April 2027

## AVAILABILITY

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Available for 8 months beginning May 2024

## RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS

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### Technical Skills

- Developed a single-page weather app using Express, SQLite, JavaScript and PUG, demonstrating full-stack development and integration skills
- Created an A.I. model for predicting snow days using Python libraries, showcasing problem-solving and analytical abilities
- Proficient in Python, Java, JavaScript, HTML, and SQL commands, with practical experience in C and Git version control, applied in various projects
- Able to successfully navigate across Microsoft and Linux operating systems, demonstrating technical adaptability and proficiency in different systems

### Communication Skills

- Led a team project in C programming language, enhancing group coordination and effective communication
- Bilingual in French and English, with conversational skills in Spanish, enabling clear and diverse communication
- Successfully presented a hackathon project to a panel, securing 3rd prize, highlighting public speaking and persuasion skills

## APPLIED PROJECTS

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### Pair Programmer

#### [Multi-threaded Ghost Hunter Simulation](#)

November 2023 - December 2023

- Developed a simulation as a pair programmer, where threads can navigate and concurrently interact with each other using linked list structures, enhancing teamwork and technical skills
- Coordinated version control for project using Git and GitHub, utilizing written and verbal communication skills
- Organized team meetings and timelines, highlighting project management and leadership qualities

## Solo Projects

### Ottawa Snow Day Predictor (using A.I. model)

October 2023 - Present

- Used historical data from Greater Ottawa Region to create and train a random forest classifier that can help predict future school closures for snowstorms (or snow days)
- Developed an HTML website with an SQLite database and server with admin capabilities to help store previous data and predictions, showcasing technical expertise

### Current Weather and Snow Day Predictor

October 2023 - December 2023

- Developed a single-page weather application using an external API, coupled with HTML pages rendered using PUG (and CSS) which includes an SQLite database and an Express server demonstrating technical versatility and problem-solving abilities.
- Containerized the application using Docker, illustrating thought towards user deployment and experience
- Created the SQLite database to store users (guest or admin) and to record feedback provided by guest users, showing proficiency in database management and attention to user engagement

## WORK EXPERIENCE

### **Cashier, Lot Associate**

July 2022 - Present

The Home Depot, Kanata, ON

- Providing routine customer service and satisfaction by constantly engaging with customers, listening to, and fulfilling their project needs
- Praised for excellent service by receiving 'Cashier of the Month' award in May (2023)
- Assisting in loading heavy merchandise for customers, demonstrating flexibility while putting customers first

## EXTRA-CURRICULAR ACTIVITIES AND CERTIFICATIONS

### **Certifications**

#### Java (Basic)

December 2<sup>nd</sup> 2023

- Certified by HackerRank for basic understanding of Java language, showcasing an established foundation and awareness of the language

#### JavaScript (Basic)

November 2<sup>nd</sup> 2023

- Certified by HackerRank for basic use of JavaScript operations, demonstrating foundational knowledge and understanding of JavaScript

#### Python (Basic)

November 2<sup>nd</sup> 2023

- Certified by HackerRank for basic use of Python scripting, showing fundamental use and application of Python skills under testing

### **Machine Learning Courses**

October 22<sup>nd</sup> 2023

- Completed [Intro to Machine Learning](#) and [Intermediate Machine Learning](#) courses by Kaggle, serving as an early stepping stone to the integration of A.I. in future projects

### **Hackathons**

#### InnovateNow!

October 2<sup>nd</sup> 2023 - October 3<sup>rd</sup> 2023

- Demonstrated capable technical and communication skills by placing 3<sup>rd</sup> at InnovateNow! team competition
- Collaborated with team members to appropriately develop and pitch a successful project idea to panel following guidelines and regulations to competition, showing attention to detail