Guillaume Genois

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Lachine (Québec) H8T 2Z4

Language skills

English
French

EDUCATION

Bachelor's Degree in Mathematics and Computer Science	**2022 - 2025**

Specialization: Data Science
Université de Montréal, Montréal

Diploma of College Studies (DEC) in Natural Sciences	**2020 - 2022**
Cégep André-Laurendeau, Montréal	Overall GPA : 91%

High School Diploma	**2020**
Collège de Montréal, Montréal	Recipient of Academic Excellence Awards

PROFESSIONNAL EXPERIENCE

Data Engineering Advisor (Developer)	**May 2024 - Present**

Desjardins, Montréal

- ❖ Developed a tool to extract used fields and their sources from SQL and SAS queries to automate impact analyses and data traceability.
- ❖ Contributed to the development of a multidimensional model in Continuous Integration/Continuous Deployment (CI/CD).
- ❖ Gained experience working in Agile mode within a large organization, requiring rigorous development, effective team communication, and continuous documentation.

System Pilot Student (Developer)	**May 2023 - Apr. 2024**

Office québécois de la langue française, Montréal

- ❖ Independently handled recurring and special development mandates.
- ❖ Extracted and analyzed data using SQL programming to produce accountability reports and respond to internal and media requests.
- ❖ Quickly learned new software, including Microsoft Access, Microsoft Power BI, and internal tools.

Badminton Coach and Animator	**2020 - 2023**

Badminton Lachine Club, Lachine

- ❖ Planned and executed training sessions in coordination with assistant coaches.
- ❖ Set long-term global and personal objectives for player progression.
- ❖ Simplified and presented basic and advanced concepts to groups of 20 players.

TECHNICAL SKILLS

Languages: Python, C++, SQL, Java, JavaScript, HTML/CSS, R, SAS, Bash
Tools: Git, Docker, Google Cloud Platform, Conda, Visual Studio, PyCharm, Azure, DevOps
Libraries/Frameworks: pandas, NumPy, Matplotlib, TensorFlow, nltk, node.js, PyTorch

PROJECTS

Machine Learning for the Best NHL Pool   **Fall 2024**
- ❖ Extracted and preprocessed NHL player data using their API.
- ❖ Predicted current season points using machine learning models.
- ❖ Built the best team using a Branch-and-Bound algorithm.

Automatic Detection of Incoming Cars in a Parking Lot   **Summer 2024**
- ❖ Built a physical Arduino system with an ultrasonic sensor.
- ❖ Sent mobile notifications using Telegram when a car passed in front of the sensor.
- ❖ Deployed the operational system at the *Aux Volets Noirs* vineyard.

Benchmarking NLP Model Performances   **Winter 2024**
- ❖ Task: Identify paraphrases by analyzing the semantic similarity between two sentences.
- ❖ Experimented with various sentence encoding methods using the GLUE dataset corpus.
- ❖ Rigorously analyzed the performance of multiple models based on the encodings.

AWARDS AND DISTINCTIONS

Awarded but declined BRPC from RECI Fund - Equivalent to NSERC USRA   **2024**
Université de Montréal   6250 $

DIRO Excellence Scholarship   **2023**
Université de Montréal   2500 $

Excellence in Sciences Scholarship   **2023**
Ministère de l'Enseignement supérieur   1000 $

Physical Education Excellence Award   **2021**
Cégep André-Laurendeau   750 $

Leadership and Perseverance Award   **2019**
Club Badminton Lachine   100 $

Honorary Mentions in Technology Program   **2017 - 2020**
Collège de Montréal

SOCIAL INVOLVEMENT

Non-Profit Organization's Website Maintenance and Modernization   **2023 - Present**
Club des personnes handicapées du Lac St-Louis, Lachine

Volunteer for Harvest and Other Activities   **2015 - 2024**
Vignoble Aux Volets Noirs, Très-Saint-Sacrement

Volunteer for Badminton Tournaments   **2018 - 2021**
Badminton Lachine, Lachine

Volunteer for Admission Exams and Open Houses   **2016 - 2018**
Collège de Montréal, Montréal

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