

## Education

---

- **B.Sc. Software Engineering**, École de Technologie Supérieure, Montreal 2024-Today
- **DCS Computer Science and Mathematics**, Champlain College, Montreal 2021-2024

## Projects

---

- **Chess Engine** – C#, Python, PyTorch 2026
  - Developed a high-performance chess engine in C# implementing alpha-beta pruning and iterative deepening, achieving an **average search depth of 18 to 20 moves** while evaluating **8M+ nodes per second**.
  - Ensured engine correctness through perf validation, systematically verifying move legality and edge cases.
  - Built and trained an NNUE neural evaluation model using PyTorch on **1B+ positions** from Stockfish Fishtest self-play games.
- **Multiplayer Chess Game** – RESTful APIs, JavaScript, Web Sockets and Docker 2025
  - Developed a real-time multiplayer chess game with client-server communication using Web Sockets.
  - Created a RESTful API backend to handle user sessions, game state, and matchmaking logic.
  - Deployed a dockerized architecture to simulate and test multiplayer functionality across environments.
- **3D Parkour Game** – Unity 3D, C# 2021
  - Developed a first-person 3D parkour platformer using Unity Engine and C#.
  - Implemented physics-based movement, collision detection, and level progression mechanics.

## Awards and Distinctions

---

- **Certificate of Excellence University of Waterloo** 2020
  - Awarded for outstanding performance in the national Gauss and Pascal Mathematics Competitions
- **Semi-Finalist – AQJM** (Association québécoise des jeux mathématiques) 2020

## Work Experience

---

- **Sales Agent, Vidéotron**, Boucherville, CA June 2023-February 2024
  - Collaborated with team members to optimize sales strategies and improve customer experience
  - Delivered personalized product consultations to customers, effectively matching mobile plans and devices to their needs
  - Achieved and exceeded monthly sales targets, contributing to overall store revenue growth
  - Maintained up-to-date knowledge of latest phone models, technologies, and market trends to provide expert advice

## Technologies and Languages

---

- **Languages:** Java, JavaScript, C#, TypeScript, Python, PHP, SQL, HTML, CSS, JSON, XML
- **Frameworks and Libraries:** React, Tailwind CSS, JavaFX, Unity 3D
- **Technologies:** MySQL, Git, Docker, Jira, PuTTY
- **Productivity Tools:** Microsoft Office Suite

## Languages

---

- Fluent in English
- Fluent in French
- Basic proficiency in Spanish

## Interests

---

- Played Competitive Volleyball for Champlain College