

# Raphaël Fontaine

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## EDUCATION

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### Bachelor of Computer Engineering

2021 – April 2025

McGill University, Montreal

Minor in Applied Artificial Intelligence

## LEADERSHIP & EXTRACURRICULARS

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McGill Engineering Games Delegation:

Co-Chair 2025, VP Internal 2024

Canadian Engineering Competition, Programming:

1<sup>st</sup> place 2023, 2<sup>nd</sup> place 2024

Quebec Engineering Competition, Programming:

2<sup>nd</sup> place 2023, 2<sup>nd</sup> place 2024

Engineering Games, Software Engineering Exam:

1<sup>st</sup> place 2024, 1<sup>st</sup> place 2025

McGill Orientation Week:

Volunteer 2022, 2023 and 2024

Varsity Hockey Student-Athlete from 2013 to 2022

## TECHNICAL SKILLS & LANGUAGES

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Programming Languages: Python, SQL, TypeScript, HTML, CSS, Java, C

Tools: Angular, Git, CI/CD, Terraform, MS Office

Languages: French (*native*), English (*fluent*)

## EXPERIENCE

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### Full-Stack Developer Intern

May 2024 – Aug. 2024

Evident Scientific, Montreal

- Developed front-end features for an Angular application and a shared component library.
- Integrated resources in Azure using Infrastructure as Code (IaC) with Terraform.
- Contributed to setting up a monorepo using NX and implemented CI/CD pipelines in Gitlab.

### Train Validation Intern

May 2023 – Dec. 2023

Alstom, St-Bruno-de-Montarville

- Deployed the GAGetrak Calibration Management Software and developed accompanying tools to streamline the tracking and calibration of over 1,000 testing equipment units.
- Restructured and standardized inventory procedures, introducing efficient processes for instrument tracking and reservation.
- Full-time during the summer and part-time during the fall semester.

### Software Developer Intern - Cybersecurity

May 2022 – Aug. 2022

Société Générale, Montreal

- Developed scripts, tools, and workflows to improve procedures effectiveness in the team.
- Built and released a full-scale internal application under the supervision of my manager: Angular frontend, Flask API, SQL backend, OAuth authentication, CI/CD, documentation.
- Learnt and applied secure coding principles.

## PROJECTS

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Projects available at: <https://raphael-fontaine.onrender.com/projects>

- **NHL Shot Maps:** Web application to visualize the density and the locations of the shots in the NHL with an autonomous data pipeline and kernel density estimation.
- **NHL Salary Evaluation:** Applied dimensionality reduction techniques to streamline NHL salary evaluation by improving AI model interpretability and efficiency.