# Raphaël Fontaine

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## EDUCATION

**Bachelor of Computer Engineering** **Aug. 2021 – Apr. 2025**
*McGill University, Montreal*
Minor in Applied Artificial Intelligence
GPA: 3.7/4

## TECHNICAL SKILLS & LANGUAGES

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|---|---|
| Programming Languages: | Python, SQL, TypeScript, HTML, CSS, Java, C, VBA |
| Tools: | Azure, Angular, Oracle, Git, Docker, GitHub and GitLab CI/CD, NX, Terraform, Flask, Neo4j, CUDA |
| Languages: | French, English |

## EXPERIENCE

**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 GAGEtrak Calibration Management Software and developed supporting tools in Python and VBA to streamline tracking and calibration of over 1,000 testing equipment units.
- Full-time during the summer and part-time during the fall semester.

**Software Developer Intern** **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

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

- **NHL Salary Evaluation:** Implemented AI models and applied dimensionality reduction techniques to evaluate NHL salaries, enhancing model interpretability and computational efficiency. (Stack: Python, pandas, numpy, seaborn, sklearn)
- **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. (Stack: Oracle, Python, SQL, cron)

## LEADERSHIP

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|---|---|
| McGill Engineering Games Delegation: | *Co-Chair 2025, VP Internal 2024* |
| Canadian Engineering Competition, Programming: | *1st place 2023, 2nd place 2024* |
| Quebec Engineering Competition, Programming: | *2nd place 2023, 2nd place 2024* |
| Engineering Games, Software Engineering Exam: | *1st place 2024, 1st place 2025* |

Varsity Hockey Student-Athlete from 2013 to 2022