

THOMAS FAIRHURST

579-421-0863 | thm.fairhurst@gmail.com

[LinkedIn](#) | [Portfolio Website](#) | [Github](#)

Skills

- **Languages:** Python • JavaScript • Java • Bash • SQL
- **Databases:** MongoDB • MySQL
- **Libraries & Frameworks :** TypeScript • React • React Native • Tensorflow • Keras • Express
- **Tools:** Node.js • Git • Github • HTML/CSS • Jupyter • JUnit • Docker • Heroku • LaTeX • VSCode • IntelliJ
- **Soft Skills:** Bilingual Communicator (English, French), Quick learner, Leader, Motivator

Education

Bachelor of Science McGill University *Montreal, QC, Canada* **09/2022 - Current**

- Major in Computer Science (Honours) **4.0 GPA** Expected graduation date: 04/2026

French Baccalaureate Lycée Fulbert *Chartres, 28000, France* **09/2019 - 07/2022**

- Computer Science and Mathematics Specializations (Grade: 18.47/20)

Experiences

Intern X-Files Computer *Chartres, 28000, France* **04/2019**

- Installed and configured operating systems while troubleshooting and repairing computers' hardware issues.

Projects

Webtoon Reader | *React Native, Typescript, Node.js, MongoDB* | [Github](#) **July 2023 - Present**

- Created a **full stack** mobile application to read webtoons (comics adapted for phone).
- Implemented a **download feature** with a real time indicator of the download progress.
- **Researched** the fastest way to display high-resolution images to provide the **smoothest possible user experience**

Search Jam | *React, Javascript, Node.js, Express.js, Python* | [Github](#) **December 2023**

- **Hackathon project**, **full stack** application graphing emotions based on a song query.
- Fine-tuned a **machine learning model** to extract emotions from song's lyrics.
- **Connected** the AI model to the front end interface via a **local API**.

DeepDoku | *Python, TensorFlow, Keras* | [Github](#) **June. 2023**

- Used a dataset of **1 million** sudokus to train a **Deep Learning** model.
- Built and optimized a **neural network**, demonstrating a deep understanding of **data preprocessing**.
- Solved a **world class** level sudoku in less than 3 seconds.

For more details about these projects and to see my other projects, please checkout my GitHub account linked at the top.

Awards & Scholarships

- **Scholarship:** Recipient of the **merit-based** Prince Of Wales Scholarship from McGill University. **(09/2023)**
- **Scholarship:** Recipient of the **merit-based** Entrance Scholarship from McGill University. **(09/2022)**
- **National Mathematics Champion:** Won the 17th edition of the Lewis Carroll tournament organized by the FFJM. **(05/2017)**