

# JEAN-FRANÇOIS TO

☎ 438.876.0741 • ✉ jeanfrancoisto@hotmail.com • 🌐 github.com/jfto23 • jfto23.github.io/personal\_website

## EDUCATION

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**McGill University** • Montreal

August 2019 – Now

*Bachelor of Science* • *Mathematics and Computer Science* • GPA: 3.88/4.0

## TECHNICAL SKILLS

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- Programming languages: Java, Python, JavaScript, Rust, C, Bash
- Other related experience: Git, Linux, SQL, VueJS, NodeJS, Flask, Travis CI, Docker, HTML, CSS

## PROJECTS

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For more details about the projects, visit my [personal website](#)

### Full Stack Website for Touch Typing

- Built a website that lets users type texts and compete for the best score
- Used:
  - MySQL for storing texts and top scores
  - NodeJS and ExpressJS to build the API
  - VueJS for the frontend
  - Docker to containerize the app
  - Heroku to deploy the app

### Photography Archive

- Built a photography portfolio
- Used:
  - Flask for dynamically generating links and album covers
  - AWS S3 for scalable and cost-efficient storage

### Multiplayer Game

- Built a video game with Rust using an open-source game engine (ggez)
- Designed and built a UDP peer-to-peer network from scratch
- Used WebAssembly to make the game playable on a browser

### Chip-8 Interpreter

- Built a Chip-8 interpreter in Rust
- Capable of playing basic games such as Tetris, Space Invaders and Pong

### Module for Open-Source Status Bar

- Wrote a script in Rust that parses .ics files and shows the current and next event of the day
- Can be integrated as a module for an open-source status bar (Polybar)

## WORK EXPERIENCE

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**Tutor** – Collège Jean-de-Brebeuf

August 2017 – May 2019

- Tutored students in various freshman-level courses such as math, physics and chemistry
- Helped students one-on-one to further their understanding of the subject

**Research Assistant** – Collège Jean-de-Brebeuf

Summer 2019

- Worked in a laboratory researching inorganic chemistry
- Worked on writing new labs so they could be taught to future students