

# Tom Sarry

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## EDUCATION

- **McGill University** Montreal, Canada  
*Bachelor of Science - Computer Science; GPA: 4.0* *Sept 2019 - April 2022*  
*Courses:* Blockchain Systems, Distributed Systems, Networks, Databases, Operating Systems, Artificial Intelligence.  
*Research Experience:* Collaborated with two McGill professors to submit a paper to the ICSE conference.  
*Extra Curriculars* Java OOP tutor, Functional Programming mentor.
- **Université de Montréal** Montréal, Canada  
*Masters of Science - Computer Science* *Sept 2022 - Present*

## SKILLS SUMMARY

- **Languages:** French (Native), English (Fluent), Spanish (Intermediary)
- **Programming Languages:** C++, Go, TypeScript, Bash, JAVA
- **Frameworks:** React, Svelte, Qt
- **Tools:** Git, Docker, Datadogs, PostgreSQL, Firebase, MongoDB
- **Platforms:** Linux, Windows

## EXPERIENCE

- **Broadsign** Montreal, Canada  
*Software Engineer Intern* *May 2022 - Aug 2022*
  - **C++:** Maintained performance-critical code used in more than 50,000 advertisement players around the world.
  - **Kafka:** Created polling and processing of events in a new microservice used to unify Broadsign's applications.
  - **GTest:** Added unit and integration tests, following the TDD paradigm.
- **Bitstack** Remote  
*Software Developer Intern* *May 2021 - Aug 2021*
  - **Flutter:** Built most screens for a Bitcoin automated savings application.
  - **Dart:** Took ownership of multiple core components of the application, such as the user's portfolio graph, with multiple period selection and automated caching for efficiency.
  - **Python / FastAPI:** Created a REST API endpoint to generate monthly user statements as PDF for any given period.
  - **i18n:** Integrated an i18n translation module and currency formatting for both french and english speaking users.
  - **Websockets:** Set up a WebSocket connection to retrieve live data about Bitcoin's price from our third party.
- **Sweater Planet** Remote  
*Software Developer Intern* *Jan 2021 - Apr 2021*
  - **React (TypeScript):** Built core screens for user-facing and admin panel of the application.
  - **Node (TypeScript):** Developed core micro-services to allow users create and manage their own merchandise store.
  - **Mocha / Chai:** Added unit tests to increase code coverage.

## PROJECTS

- **Wasted on Youtube** See on github  
*Data Processing, React, Go, Docker* *Aug 2020 - Sep 2020*
  - **Go:** Backend to compute the total estimated time spent on Youtube, with the Youtube API and Google Takeout.
  - **Performance:** Randomized sampling and multi-threading to decrease API calls duration from 2h30 to 500ms.
  - **React (TypeScript):** Created a web application to allow users to interact easily with the Backend.
  - **Hosting:** Hosted this project using Heroku and Netlify, to let anyone enjoy it.
- **Kattis Scraper** See on github  
*Web Scraper, Go* *Nov 2022*
  - **Go:** Created a web scraper for the Kattis website to retrieve the problems solved.
- **Weather** See on github  
*CLI, Go* *Nov 2022*
  - **Go:** Built a fast CLI weather app to get the weather for any city, used in my Linux environment.

## HONORS AND AWARDS

- **Science Scholarship (x2):** awarded to the top 5% students in the science faculty at McGill.
- **2nd place winner Internet of Things, Codejam Hack:** 300 participants, 40 submissions

## HOBBIES

- **Bitcoin, Lightning Network, Cooking**
- **Long distance running:** Half marathon finisher (x2), currently training for Montreal Marathon.