

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*
Publications: Blockchain Scaling Using Rollups: A Comprehensive Survey

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*
 - **Responsibilities:** Took part in weekly design sessions, and bi-monthly retro to explain the work done to the team. Researched and animated 2 Lunch&Learn on Advanced GoogleTest/GoogleMock features to help increase the team's testing expertise.
 - **Kafka:** Created polling and processing of events in a new microservice used to unify Broadsign's applications.
- **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.

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.

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), record under 1h40.