

# JingHan Sun

[jinghansun.com](http://jinghansun.com)

Email: [jing.h.sun@mail.mcgill.ca](mailto:jing.h.sun@mail.mcgill.ca) | LinkedIn: <https://linkedin.com/in/sunjinghan> | Github: <https://github.com/dzinghan>

---

## EXPERIENCE

Developer Intern – **Blockchain at McGill (BAM)** – Montreal, QC – Nov.2020-present

- Designed a blockchain-based voting system (elections and petitions) with React.js, Next.js, and Solidity
- Collaborated with 4 other team members using the Agile methodology

Founder – **Sunny Elite Club** – Montreal, QC – Sep.2016-Jan.2021

- Developed leadership skills by supervising 4 tutors and 35 students and managing the organization in general.
- Improved 10 students' math grades by an average of 7% or math contest rankings by tutoring them weekly.
- Inspired students to pursue their interests in STEM by being their mentor and supporting them in their projects.
- Organized and presented more than 10 conferences and workshops with more than 50 participants each

## PERSONAL PROJECTS (MORE ON GITHUB AND JINGHANSUN.COM)

**Montreal Neighborhood Analysis** (Python, Jupyter Notebook) (<https://github.com/dzinghan/mtl-neighborhood-analysis>)

- Comparative analysis of the 19 boroughs of Montreal using clustering techniques (k-means)

**Smith Normal Form Calculator** (Python) (<https://github.com/dzinghan/smith-normal-form-calculator>)

- Implementation of the Smith normal form algorithm including a class for matrices and 2 of its applications

**Bouncing Balls Simulation** (Python) (<https://github.com/dzinghan/Bouncing-Ball-Simulation>)

- Simulation of balls that bounce off walls and each other, considering gravity and air resistance

**Personal Website** ([jinghansun.com](http://jinghansun.com)) (HTML, CSS, JavaScript (React))

## SKILLS

- Programming Languages: Python, Java, HTML/CSS, Javascript, SQL, C
- Tools/Technologies: Pandas, NumPy, Scikit-learn, Matplotlib, React.js, Git, Linux/Unix, Microsoft tools and Azure
- Currently learning: Docker, intermediate machine learning, deep learning, trading skills
- Spoken/Written Languages: English, French, Mandarin, German (intermediate)
- Communication, problem-solving, and analytical skills

## EDUCATION

**McGill University** – Montreal, QC – Sep. 2020 to May 2023

- Bachelor of Science, Major: Joint Honours Mathematics and Computer Science, CGPA: 3.86/4.0
- Horatio Alger National Entrepreneurial Scholar (10 students in Canada)
- Relevant Courses: Introduction to Software and Computer Systems (in Unix and C), Honours Algorithms and Data Structures (Java)

Some Online Courses and Certificates

- Data Science Certificate by IBM (2020); HTML, CSS, and Javascript for Web Developers by Johns Hopkins (2020); Machine Learning by Stanford (2019)

## ACTIVITIES, INVOLVEMENT, AND ACHIEVEMENTS

- HackQC 2020 – 3rd place – built an app that tracks different sport fields around Montreal
- SHAD Fellow 2019
- First Aid Team – 2019-2020