

Jing Han Sun

jinghansun.com

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

EDUCATION

McGill University – Montreal, QC – 2020 - May 2023

- Bachelor of Science in Joint Honours Mathematics and Computer Science
- Horatio Alger National Entrepreneurial Scholar
- Relevant Courses: COMP 250–Introduction to Computer Science (Java), COMP 206–Introduction to Software Systems (in Unix and C), COMP 252–Honours Algorithms and Data Structures, COMP 273–Introduction to Computer Systems

Online Courses and Certificates

- Data Science Certificate by IBM
- HTML, CSS, and Javascript for Web Developers by John Hopkins
- Machine Learning by Stanford

EXPERIENCE

Developer Intern – Blockchain at McGill – Nov.2020-now

- Designed a blockchain solution for project collaboration (e.g. healthcare) using React, Next

Founder, Mentor, and Former Math tutor – Sunny Elite Club – Montreal, QC – Sep.2016-now

- Developed leadership skills by supervising 4 tutors and 35 students and managing the organization in general.
- Improved 10 students' math grade 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; topics include general information about the organization, benefits of construction/logic toys, and random math topics.

PROJECTS (+ ON GITHUB AND [JINGHANSUN.COM](http://jinghansun.com))

Smith Normal Form Calculator

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

Bouncing Balls Simulation

- Python (Tkinter)
- Balls that bounce off walls and each other
- Gravity and air resistance can be added too.

Montreal Neighborhood Analysis

- Python (pandas, sklearn)
- Comparative analysis of the 19 boroughs of the city of Montreal
- Use clustering techniques to determine the best neighborhood for a user depending on their needs and preferences

Personal Website (jinghansun.com)

- HTML, CSS, JavaScript (React)
- Original design and bootstrap
- Website that showcases my resume and projects

SKILLS

- Programming Languages: Python, Java, HTML/CSS, SQL, Javascript, C
- Tools and Technologies: Pandas, NumPy, Scikit-learn, Matplotlib, Tkinter, Tensorflow (in progress), React.js, Git, Linux/Unix, AWS (in progress)
- Spoken Languages: English, French, Mandarin, German (intermediate)

INVOLVEMENT AND ACHIEVEMENTS

- HackQC – 3rd place – 2020
- Math contests honour roll and school champion – 2015-2019
- SHAD Fellow 2019
- First Aid Team – 2019-2020