

Jing Han Sun

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EDUCATION

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

- Bachelor of Science in Joint Honours Mathematics and Computer Science
- Horatio Alger National Entrepreneurial Scholar
- Relevant Courses: Introduction to Computer Science (Java), Introduction to Software Systems (in Unix and C), Honours Algorithms and Data Structures, 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-based voting system using technologies such as React and Next.js
- Collaborated with 4 other team members using the Agile methodology

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 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; topics include general information about the organization, benefits of construction/logic toys, and random math topics.

PROJECTS (+ ON GITHUB AND 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

Montreal Neighborhood Analysis

- Python (pandas, sklearn), Jupyter Notebook
- Comparative analysis of the 19 boroughs of Montreal
- Used clustering techniques

Personal Website (jinghansun.com)

- HTML, CSS, JavaScript (React)

SKILLS

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

INVOLVEMENT AND ACHIEVEMENTS

- HackQC – 3rd place – 2020
- SHAD Fellow 2019
- First Aid Team – 2019-2020