Le Chen

134 2425 6497 • le.chen@mail.mcgill.ca

EDUCATIONAL EXPERIENCE

McGill University – Faculty of Science, Montreal, Canada — Sept 2021 – May 2025 (expected)
Bachelor of Science, Major in Computer Science and Biology, CGPA: 3.83 / 4.00
Core Courses:

- University-level Mathematics: ordinary differential equations; multivariable calculus; vector calculus; partial differential equations (intro); Fourier series; Fourier transform; Laplace transform; probability and statistics; discrete mathematics; linear algebra
- Java Programming: object-oriented design; linked lists; queues; stacks; sorting algorithms; recursion; trees; hash maps
- Signals, Systems and Control: discrete- and continuous-time signals; basic system properties; linear time-invariant systems; convolution; frequency domain analysis; filtering; sampling
- Engineering Principles in Physiological Systems: basic aspects of nervous system, circulatory system, and respiratory system; models and control theory of physiological systems

Marianopolis College, Montreal, Canada — Aug 2019 – June 2021
Quebec College Studies Diploma (CEGEP), Program: Health Science
Awards:

- Dean's List for achieving an academic average above 85% — 2019 – 2021
- Graduates Honour Roll — June 2021

INTERNSHIP EXPERIENCE

Biomedical Science Intern, Ruiping Health Technology, Shenzhen, China — July 2023 – Aug 2023

- Studied knowledge of AI and ChatGPT's applications in biomedical science through assisting an AI computer scientist.
- Researched to design a novel treatment for chloasma.
- Filled in the medical device registration documents.

PROJECT EXPERIENCE

Intracranial Pressure (ICP) Analysis and Modelling, McGill University, Montreal, Canada — 2023

- Performed data analysis and extracted information from raw ICP signals of patients with traumatic brain injury, using both time domain and frequency domain analysis methods.
- Attempted to implement a mathematical model from existing literature to investigate the interaction between ICP and cerebral dynamics.

Implementation and Usage of Hash Maps for Data Analysis, McGill University, Montreal, Canada — 2023

- Constructed a customized hash table data structure for analyzing the data from Rate My Professors website.
- Used the customized hash table to implement data analysis features of interest such as the rating distribution of a professor, the comparison between male and female professors, etc.

Block Game, McGill University, Montreal, Canada — 2023

- Used quad-trees to model hierarchical data.
- Implemented recursive methods to make a game that involves the structure of recursively defined quad-trees.

Online Travel Agency, McGill University, Montreal, Canada — 2023

- Used object-oriented design to simulate an online travel agency.
- Implemented the methods required in a travel agency system such as flight reservation, hotel reservation, etc.

SKILLS AND INTERESTS

Language Skills: Fluent English, Mandarin, and Cantonese; basic French
Computer Skills: Python, Java, and MATLAB programming; Inkscape; basic video editing
Interests: Snowboarding; travel; cooking; camping; kayaking; stand up paddling