

CHRISTIAN ZHOU

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OVERVIEW

Second year at McMaster University, expected to obtain a B.A. in Computer Science in 2026. Dedicated to academic performance. Strives to be reliable and supportive as a team member. Coming from a multicultural background, able to embrace diverse perspectives and open-minded approach. Motivated to learn, provide help, and accomplish personal & collective goals.

RELEVANT SKILLS

- SQL, Python, Java, Bash in Linux, C, Git (version control), Haskell, LTSA
 - Relevant coursework:
 - **Algorithms and Software Design:** Data structures (arrays, linked lists, trees, graphs) and algorithms (sorting, searching), in python and jupyter notebook. Frequent group projects on real-life runtime testing reports, managed with GitHub version control.
 - **Concurrent Systems:** Concurrency: processes, synchronization and FSP; safety, liveness and starvation; resource management and sharing. Model design and analysis: temporal logic, petri nets, structure diagram.
 - **Automata and Computability:** Finite state machines, push down automata and turing machines. Regular, context-free and recursive/r.e. languages. CYK algorithm, pumping lemma, CFL grammar and regular expression.
 - **Databases:** SQL, relational algebra, ER diagram. Practical applications of SQL query, including execution on linux server. Dependency theory, normal form (BCNF, 3NF) and query optimization.
 - Languages: Chinese (Mandarin, native), English (native level), French (proficient).
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EXPERIENCE

Team Member - Shuttletrak Project

DeltaHacks X, Hamilton, ON | 01/2024

- Collaborated as a key member on Shuttletrak, a web-based map app developed with Flutter.
- Crucial contributions to the front-end development, ensuring an on-theme, intuitive user interface.
- Worked towards integrating real-time tracking and providing comprehensive campus information.
- Played a crucial role in optimizing project efficiency, enabling the timely completion of back-end development.

Assistant Greenskeeper

Seaside Lawn Bowling Club, Saint John, NB | 06/2023 – 08/2023

- Ensured optimal playing conditions by maintaining the surface through mowing, watering, pest control, and repairs.
- Prepared and maintained the greens for a welcoming member experience.
- Demonstrated dedication by managing security, gates, refurbishments, and upkeep for lasting club appeal.

Team Member - ClearSky Travelytics (category-winning)

DeltaHacks IX, Hamilton, ON | 01/2023

- Collaborated as a key member of the winning team in the Google Sustainability Category.
 - Leveraged my knowledge of Google Web technologies, HTML, and CSS to contribute to the development of a Google Maps-integrated web app designed to monitor greenhouse gas emissions and calorie consumption, providing eco-friendly and healthy trip planning.
 - Demonstrated effective teamwork by conducting in-depth research and gathering essential data for the carbon tracking feature of the project.
 - Played a pivotal role in optimizing project efficiency, ensuring the successful and timely completion of the project.
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EDUCATION

McMaster University | 09/2022 – Present, Hamilton, ON

Bachelor of Science - Computer Science Co-op II

St. Malachy's Memorial High | 09/2019 – 06/2022, Saint John, NB