

# Moses Xu

📧 mosesxu.ca

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Email : moses@mosesxu.net

Mobile : +1 (647) 225-1159

## SKILLS

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- **Languages:** Python, C/C++, HTML/CSS/JS, Java, Kotlin
- **Tools/Frameworks:** Django, React, Git, Flask, Vue, Jekyll, L<sup>A</sup>T<sub>E</sub>X

## AWARDS/COMPETITIONS

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- **Canadian Computing Competition (Senior Division) & Olympiad** Waterloo, ON  
*National algorithms competition* Feb 2018 – Feb 2021
  - Silver Medalist at the 2021 Canadian Computing Olympiad, an invite-only team selection test for the Canadian IOI team made up of top CCC participants (~40 were invited in 2021)
  - Placed 1st out of 2,901 participants with a perfect score in the 2021 competition
- **Google Code Jam** Apr 2019 – Present  
*Major algorithms competition that gathered 90,000+ participants last year*
  - Placed 165th in Round 3 2021
  - Round 3 Qualifier in 2020 and 2021 (top 1,000 participants)

## EXPERIENCE

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- **Codeforces LATOKEN Round 1** [📧 Contest](#) [📧 Profile](#) Online  
*Organized algorithms competition with 18,000+ participants* May 2020 – June 2021
  - **Organization:** Worked with other problemsetters and Codeforces Administration to gather testers and ensure smooth delivery of competition
  - **Problemsetting:** Generated ideas for problems, prepared problem statements and test data, created programs to validate correctness of data and graders
- **DMOJ Problem Setter** [📧 Profile](#) Online  
*Organized and tested programming competitions with 100+ participants* Sept 2019 – Present
  - **Mock CCC:** Problemsetter for two Mock Canadian Computing Competition contests in 2020 and 2021
  - **CPC:** Organizer and problemsetter for CPC contest in 2019 and 2021

## PROJECTS

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- **Competitive Programming Tools** [📧 VSCode](#) [📧 PY](#)  
*Python module for Competitive Programming*
  - Python module that contains a suite of tools for algorithms problems, including automated local testing, stress testing tools, and integration with browser extensions
  - Formerly a VSCode extension written in TypeScript with React.JS and the VSCode API with similar functionality
- **Algorithms & Data Structures Library** [📧 Repo](#)  
*60+ DSA templates (in C++) built to be easily integrated into existing solutions*
  - Includes a variety of algorithms: graphs, strings, data structures, combinatorics and number theory, etc.
  - Automated testing integration using GitHub actions with `online-judge-tools/verification-helper`
- **LetterGrid** [📧 DevPost](#)  
*Head-to-head online multiplayer game made for Hack the North 2021*
  - Typing-based strategy game where players race to opposite corners of a grid while blocking opponents
  - Built using React (UI), Flask (backend), and Socket.IO

## EDUCATION

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- **University of Waterloo** Ontario, ON  
*Candidate For Honours Bachelor of Computer Science; GPA: 3.98* Sept 2021 – Apr 2026
  - **Coursework:** Algebra (Advanced) (98%), Calculus (Advanced) (99%), Designing Functional Programs (Advanced) (98%)