

Moses Xu

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SKILLS

- **Languages:** Python, C/C++, HTML/CSS/JS, Java, Kotlin
- **Tools/Frameworks:** Django, React, Git, Flask, Vue, Jekyll, L^AT_EX
- **Platforms:** Windows, Linux

AWARDS/COMPETITIONS

- **Canadian Computing Olympiad** Waterloo, ON
Canada's most prestigious high school programming contest Feb 2018 – Feb 2021
 - 2021 Canadian Computing Olympiad (CCO) Silver Medalist – invite-only (top ~40 CCC participants this year) team selection test for the Canadian IOI team
 - 2021 Canadian Computing Competition (CCC) – Placed 1st out of 2,900+ participants with a perfect score
- **Google Code Jam** Apr 2019 – Present
Major algorithms competition that gathered 90,000+ participants last year
 - Placed 3rd of Canadian participants in Round 3 2021 (165th overall)
 - Round 3 Qualifier in 2020 and 2021 (top 1,000 participants)
- **Competitive Programming:** Grandmaster on Codeforces (top ~0.4%), member of Waterloo Black ACM-ICPC team

EXPERIENCE

- **Algorithms Contest Organizer (Codeforces and DMOJ)** Online
Organized, created, and prepared problems for programming contests Sept 2019 – Present
 - **Codeforces LATOKEN Round 1:** Algorithms contest with 18,000+ participants sponsored by LATOKEN
 - **Mock CCC:** Problemsetter in [2020](#) and [2021](#)
 - **CPC:** Organizer and problemsetter in [2019](#) and [2021](#)
- **Focal Healthcare** Toronto, ON
Test/Documentation Engineering August 2019
 - Wrote scripts that formatted and validated product specifications and manual tests
 - Used Python with python-docx and xlswriter packages to parse documentation

PROJECTS

- **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+ Data Structures & Algorithms 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

- **University of Waterloo** Ontario, ON
Candidate For Honours Bachelor of Computer Science; GPA: 3.98 Sept 2021 – Present
 - **Coursework:** Algebra (Advanced) (98%), Calculus (Advanced) (99%), Designing Functional Programs (Advanced) (98%)
 - **Scholarships:** \$8,000 Faculty of Mathematics scholarship, \$2,000 President's scholarship for 95%+ HS average