

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 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

- **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

- **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+ DS&A 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 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 – Apr 2026
 - **Coursework:** Algebra (Advanced) (98%), Calculus (Advanced) (99%), Designing Functional Programs (Advanced) (98%)