Moses Xu

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EDUCATION

- **University of Waterloo** — Ontario, ON
  Candidate For Honours Bachleor of Computer Science; GPA: 4.0 — *September 2021 – April 2026*
  - **Coursework**: Algebra (Advanced), Calculus (Advanced) (99%), Designing Functional Programs (Advanced) (98%)

AWARDS/COMPETITIONS

- **Canadian Computing Olympiad** — Waterloo, ON
  Silver Medallist — *May 2021*

- **Canadian Computing Competition (Senior Division)** — Waterloo, ON
  Honour Roll Placement — *Feb 2018, Feb 2020, Feb 2021*
  - **2021**: Placed 1st out of 2901 participants (Perfect score)
  - **2020**: Group 2 Honour Roll, placing in the top 2% of participants
  - **2018**: Group 3 Honour Roll, placing in the top 5% of participants

- **USA Computing Olympiad**
  Placed 33rd out of all pre-college participants in the USACO Open 2021 (Platinum Division) — *2019 – Present*

- **Google Code Jam**
  2x Round 3 Qualifier, placed 165th in Round 3 2021 — *2019 – Present*

EXPERIENCE

- **Codeforces LATOKEN Round 1** — Online
  Contest organizer — *May 2020 – June 2021*
  - **Organization**: Worked with other problemsetters to host a competition with 18,000+ participants, gathered testers for problems, worked with Codeforces Administration to 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** — Online
  Organized and tested programming competitions — *September 2018 – Present*
  - **Mock CCC**: Problemsetter for two mock CCC (Canadian Computing Competition) contests in 2020 and 2021
  - **CPC**: Organizer and problemsetter for CPC competition in 2020 and 2021
  - **Olympiads School**: Created tasks for Olympiads School computer contest quizzes held at the end of each term
  - **WAC**: Tester for WAC contest from 2019 until present

PROJECTS

- **CP Tools**: Python module that contains a suite of tools for contests and practice: automated local testing against test cases, automated stress testing, and integration with browser extensions, among others

- **Algorithms/DS Library**: Library with a variety of different data structures and algorithms (i.e. graphs, strings, combinatorics) built with customizability in mind. Testing integration with `online-judge-tools/verification-helper` to ensure correctness

- **Personal Website**: Personal website created using Jekyll, Nginx, and Django. It also hosts a searchable library of my solutions to the DMOJ online judge

PROGRAMMING SKILLS

- **Languages**: Python, C/C++, HTML/CSS/JS, Java   **Technologies**: Django, React, Flask, Git