Moses Xu

% mosesxu.ca

nplasmatic1

Skills

• Languages: Python, C/C++, HTML/CSS/JS, Java, Kotlin

• Tools/Frameworks: Django, React, Git, Flask, Vue, Jekyll, LATEX

• Platforms: Windows, Linux

Awards/Competitions

• Canadian Computing Olympiad

Waterloo, ON

Canada's most prestigious high school programming/algorithms contest

Feb 2018 - Feb 2021

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- \circ 2021 Canadian Computing Olympiad (CCO) Silver Medalist, an invite-only (top \sim 40 CCC participants this year) team selection test for the Canadian IOI team
- o 2021 Canadian Computing Competition (CCC) Placed 1st out of 2,900+ participants with a perfect score

Google Code Jam

Major algorithms competition that gathered **90,000+** participants last year

Apr 2019 - Present

- o Placed 3rd of Canadian participants in Round 3 2021 (165th overall)
- o Round 3 Qualifier in 2020 and 2021 (top 1,000 participants)

Experience

Programming Contest Organizer (Codeforces and DMOJ)

Online

Organized contests, created and prepared algorithms problems

Sep 2019 - Present

- Codeforces LATOKEN Round 1: Algorithms contest with 18,000+ participants sponsored by LATOKEN. Statements were written with Latex and problems were prepared in C++ using Codeforces' Polygon System %
- o Mock CCC: Contests in 2020 and 2021 with 200+ participants % %
- o CPC: Contests in 2019 and 2021 with 100+ participants % %

• Focal Healthcare

Toronto, ON

Test/Documentation Engineering

Aug 2019

- Wrote scripts that formatted and validated product specifications and manual tests
- Used Python with python-docx and xlsxwriter packages to parse documentation

Projects

Competitive Programming Tools (7)

Python module for Competitive Programming

- Contains a suite of tools for algorithms problems, including automated local testing, stress testing tools, and integration with browser extensions
- o Formerly a VSCode extension written in TypeScript with React.JS and the VSCode API with similar functionality

Algorithms & Data Structures Library ()

60+ Data Structures & Algorithms templates (in C++) built to be easily integrated into existing solutions

- o 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 %

Online head-to-head typing-based strategy game made for Hack the North 2021

Built using React.JS (UI), Flask (backend), and Socket.IO (communication between client and server)

Education

• University of Waterloo

Ontario, ON

Candidate For Honours Bachelor of Computer Science; GPA: 3.98

Sep 2021 - Present

- Coursework: Algebra (Advanced) (98%), Calculus (Advanced) (99%), Designing Functional Programs (Advanced) (98%)
- o Scholarships: \$8,000 Faculty of Mathematics scholarship, \$2,000 President's Scholarship of Distinction