

# Edward Xiao

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## EDUCATION

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### Carnegie Mellon University

*School of Computer Science*

Aug. 2022 – May 2025

*Pittsburgh, PA*

### University of Toronto Schools

*University of Toronto Schools Diploma*

Sep. 2016 – June 2022

*Toronto, ON*

## AWARDS

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### International Olympiad in Informatics · Bronze Medal

*Aug. 2022*

- One of 4 students chosen to represent Canada at prestigious international computer science competition
- Placed 91<sup>st</sup> out of 349 competitors

### Canadian Computing Olympiad · Gold Medal, Silver Medal

*May 2021, May 2022*

- Participated in top Canadian invitational week-long computer science workshop & competition
- Placed top 15 and top 4 in 2021 and 2022, respectively

### Canadian Mathematical Olympiad

*Mar. 2020, Mar. 2021, Mar. 2022*

- One of approximately 80 students invited to participate in the highest-level high school mathematics contest in Canada, used to choose Canada's International Mathematical Olympiad team

### United States of America Computing Olympiad · Platinum Division

*Jan. 2021*

- Placed in the highest division (Platinum) and the 99<sup>th</sup> percentile of participants

### Educational Computing Organization of Ontario Programming Contest

*May 2021*

- Placed 2<sup>nd</sup> out of 473 competitors in province-wide computer science competition

## EXPERIENCE

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### DMOJ Modern Online Judge

Feb. 2021 – Present

*Contest Organizer & Problem Author*

*Toronto, ON*

- Organized and authored problems for monthly flagship contest series on DMOJ with over 200 regular participants
- Authored over 50 problems and solution tutorials, used in various contests and training problem sets
- Managed contest testing process by collaborating with 2 other organizers in overseeing dozens of contest testers
- Created several GB of test data using generators written in both C++ and Python linked to DMOJ backend

### Triway Education

Sep. 2021 – July 2022

*Computer Science Teacher*

*Richmond Hill, ON*

- Planned curriculum of essential data structures and algorithms concepts, including divide and conquer, segment trees, dynamic programming, graph traversals, and string algorithms
- Prepared materials for weekly lessons, which includes creating slideshow presentations, planning walk-throughs of practice problems, and curating homework assignments
- Responded to questions about assignments and provided solution samples in both Java and C++

### Olympiads School

Mar. 2021 – Nov. 2021

*Computer Science and Math Tutor*

*Toronto, ON*

- Explained homework questions and solutions for students in elementary school, middle school, and high school
- Created and demonstrated code tutorials for homework assignments in both Java and Python
- Provided on-demand Q&A sessions regarding various class materials
- Helped collaboratively moderate mock computing competitions and explain problem solutions

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, Bash, L<sup>A</sup>T<sub>E</sub>X

**Frameworks:** React, Node.js, WordPress

**Developer Tools:** Git, VS Code, Visual Studio, CLion, PyCharm, IntelliJ, Eclipse