

Justin Matthew Wong

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Skills

Languages: C, C++, Python, Java, HTML, CSS, JavaScript

Platforms: Windows, Linux (Ubuntu)

Proficiency in algorithms and data structures.

Education

BS **University of Toronto**, Computer Science

Sept 2023 – Present

- Cumulative GPA: 3.98/4.0
- **Coursework:** Software Development and Programming, Algorithm and Theory, Computer Architecture

Honors & Awards

2025 ICPC North America Championship, 13th Place

- Advanced to the **ICPC World Finals** Baku in September 2025

2023 Canadian Computing Olympiad, Bronze Medal

- Invited to the University of Waterloo as one of the top 30 high school contestants nationwide.

Extracurricular Activities

University of Toronto ICPC Team

Department of Computer Science, University of Toronto

Sept 2023 – Present

Research / Personal Projects

Personal Webserver

 [Github Repo](#)

Technologies: C++, HTML/CSS, Nginx, System Programming, Linux

- Developed a lightweight web server in C++ using low-level system programming to serve static HTML/CSS content.
- Designed and deployed a personal website hosted via the custom C++ server.
- Configured Nginx as a reverse proxy to handle HTTPS connections.

Pseudo-polynomial Algorithms for Length-bounded Integral Multicommodity Flow

S.T. Yau High School Science

Award

[Final Paper](#) 

- Investigated and developed solutions for the length-bounded integral multicommodity flow problem.
- Proved that the general problem is NP-hard by using a reduction from 3SAT
- For series-parallel graphs, designed a pseudo-polynomial dynamic programming solution based on decomposition graphs, providing exact results and proving its optimality
- Implemented heuristic algorithms in C++, including simulated annealing, achieving over 80% accuracy based on empirical results