

## Skills

- **Languages:** Python, C/C++, HTML/CSS/JS, Node.JS & TS, Java, Kotlin
- **Tools/Frameworks:** Django, Git, Flask, Express, Docker, Nginx
- **Platforms:** Windows, Linux, GCP

## Experience

- **AMD: Software Engineering Intern** Remote  
*Worked on debugging tool for AMD kernel-mode drivers using C++ and Python* May 2022 – Aug 2022
  - Added feature allowing driver developers to inspect hardware scheduling queues
  - Implemented complete overhaul of output formatting library
  - Proposed and implemented improvements to test infrastructure
- **Programming Contest Organizer & Author** Remote  
*Organized contests, created algorithms problems and prepared tests and graders* Sep 2019 – Present
  - **Codeforces LATOKEN Round 1:** Algorithms contest with 18,000+ participants sponsored by LATOKEN. Contest preparation done with C++
  - **DMOJ Contests:** Organized contests with hundreds of participants
- **WePlate – Backend Engineer** Remote  
*Designed, developed, and deployed (Python + Django) backend system for nutritional insights* Jan 2022 – June 2022
  - Created an algorithm using Simulated Annealing to generate optimized portion sizes
  - Processed and served mass amounts of cafeteria scheduling and nutritional data (10,000+ items)
  - Managed deployment of service using Google Cloud

## Awards/Competitions

- **Google Code Jam** Remote  
*Major algorithms competition with 90,000+ participants in 2021* Apr 2019 – Present
  - Placed **3rd** of Canadian participants in Round 3 2021 (165th overall)
  - Round 3 Qualifier in 2020 and 2021 (top 1,000 participants)
- **Canadian Computing Olympiad** Waterloo, ON  
*Canada's most prestigious high school programming/algorithms contest* Feb 2021 – May 2021
  - 2021 Canadian Computing Olympiad (CCO) **Silver Medalist**, an invite-only (top ~40 CCC participants in 2021) team selection test for the Canadian IOI team
  - 2021 Canadian Computing Competition (CCC) – Placed **1st** out of **2,900+** participants with a perfect score

## Projects

- **Competitive Programming Tools**  
*Python module for Competitive Programming*
  - Tools that greatly speed up implementation and debugging during programming contests, including automated local testing, stress testing tools, and browser integration
  - Also available as a VSCode extension with a convenient UI (TS + React)
- **Personal Webserver**  
*Web services managed with Docker and Nginx*
  - **Rating Badges:** Dynamic SVG badges displaying user rating (TS + Express)
  - **DMOJ solution searcher:** Searchable solution database of 1,400+ problems using Django

## Education

- **University of Waterloo** Waterloo, ON  
*Candidate For Honours Bachelor of Computer Science; Major Average: 97.8%* Sep 2021 – Present
  - **Coursework:** Linear Algebra I (Adv) (95%), Calculus II (Adv) (97%), Elementary Algorithm Design and Data Abstraction (Adv) (100%)
  - **Scholarships:** \$8,000 Faculty of Mathematics scholarship, \$2,000 President's Scholarship of Distinction