

ROGER FU

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EXPERIENCE

DMOJ: Modern Online Judge

Software Developer and Administrator

📅 2016 - Present

- Contributed to the DMOJ (dmoj.ca), an open-source platform for running programming contests
- Hosted over 200 programming contests for various organizations, including three national olympiads
- Ported 90k line codebase from Python 2 to Python 3
- Designed a responsive Django frontend using modern web technologies
- Main developer of the `ecoo` branch, used to run the province-wide ECOO programming contest starting from 2019
- Maintained a whitelist of Linux syscalls to sandbox over 60 languages
- Oversaw moderation team responsible for end-user interaction
- **Technologies used:** Python, Django, HTML/Jinja2, CSS/Sass, Java, C, C++, Git, Linux, Docker

Don Mills Programming Gala

Head Organizer

📅 2017 - 2019

- Head organizer of the Don Mills Programming Gala (dmoj.ca/dmpg), a province-wide student-organized programming competition
- Organized signups, prizes, as well as acting as liaison between schools
- Typeset problems, created test data, editorials, and reference solutions to challenging computer science problems for high school students

PROJECTS

More projects can be found on my [Github profile](#).

jpendulum

👤 github.com/kiritofeng/jpendulum

- Computer vision program written in Java for tracking motion of a swinging pendulum in a video by performing fuzzy matching on extracted frames
- **Technologies used:** Java, Maven, FFmpeg, OpenCV

PanMK

👤 github.com/kiritofeng/panmk

- Python program to continually compile files via Pandoc, inspired by LaTeXMK
- Tracks files and automatically calls Pandoc and launches/reloads viewer
- Cross platform: tested on Windows and Linux
- **Technologies used:** Python

ACHIEVEMENTS



Canadian Computing Olympiad 2017/2018 Medalist

Top 30 Canadian high school students, invited to week-long training camp for national team selection



Canadian Math Olympiad 2018 Qualifier

Top 70 Canadian high school students, invited to write the Canadian Math Olympiad



American Invitational Mathematics Examination Qualifier (x4)

Top 5% of American and Canadian high school students on the American Mathematics Contest for four years, invited to participate in the American Invitation Mathematics Examination



ECOO 2018 Second Place Finalist

Second place out of 400 teams in Ontario-wide programming competition



University of Waterloo Mathematics National Scholarship

One of fifteen recipients of the University of Waterloo's Mathematics National Scholarship, valued between \$12-25k, awarded for outstanding high school contest performance

QUALIFICATIONS

C

C++

Java

Python

Django

Git

Linux

LaTeX

PHP

Javascript

HTML/Jinja2

CSS/Sass

Bash

Batch

Docker

EDUCATION

Bachelor of Computer Science

University of Waterloo

📅 2019 - 2024