

Tim Min

Nanotechnology Engineering 2020

University of Waterloo

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tmin.ca

Engineering student with a passion for mathematical problem solving.

Skills

Languages

Python, MATLAB, HTML/CSS, JavaScript. *Learning:* Java, Ruby, SQL (Oracle Developer).

Technologies

Microsoft Office (including VBA), LaTeX, GitHub (Git), RegiStax and AutoStakkert!2 (image stacking).

Distinctions

- 2015** **Canadian Team Mathematics Contest**
1st place team (Waterloo C.I.), Canada
- 2014** **American Regions Mathematics League Division B**
4th place team (Waterloo Math Team), North America
- Founded the Waterloo Math Team in 2014, co-leader and treasurer 2014 to 2015.
- 2011** **Canadian Open Mathematics Challenge**
1st place, Southwestern Ontario
Honour Roll, Ontario

Projects

- 2016 –** **Code to Gallantry: RPG** – github.com/minzart/ctgrpg
- Text-based role-playing game written in Python using NumPy and Pygame.
- Developed programming skills, relying on personal research in computer science literature and help from the open source community.
- Built gameplay structure, created creative aspects, and resolved issues independently.
- 2015 –** **Water Purification Project**, under supervision of Prof. N. M. Abukhdeir, PhD
- Engineering team in process of building a water softening system with customized parts.
- Created plan with team to optimize productivity and cost efficiency.
- Performed analysis of potential materials based on efficiency, durability, and budget.

Relevant Experience

- 2016 –** **Founder/Organizer and Instructor**, Waterloo Math Team Youth Outreach
- Initiated to inspire mathematical thinking for students from grades 6 – 10.
- Prepared weekly assignments and handouts created with LyX/LaTeX.
- Organized sessions with parents and youth, maintained mailing list with Google Contacts.
- 2015 –** **Teacher**, Private Music Instruction (Kitchener-Waterloo, ON)
- Organized and planned teaching schedule for students using Excel.
- Developed unique pedagogical approach directed at older students for accelerated learning.
- 2014** **Front Desk and Portering Assistant**, Grand River Hospital (Kitchener, ON)
- Organized and prepared paperwork including information forms and patient packages.
- Used hospital computer and phone system extensively to assist visitors and staff.
- Managed records including visitor and discharge information and delivery confirmations.

Education

- 2015 – 2020** **University of Waterloo**
- 2015 – 2020 Candidate for BAsC in Honours Nanotechnology Engineering
- Received President's Scholarship for academic standing upon admission.
- Completed a technical communication course, prepared a report with Word.
- 2015 Part-Time Undergraduate – Mathematics
- Completed MATH 138 (Calculus 2 for Honours Mathematics) during high school.