

Jae Gwan Park

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Experience & Extra Curricular

Sunnybrook Research Institute

July 2021 - present

Research Intern

- Sunnybrook Research Intern in Dr. Kullervo Hynynen's lab as part of the Focused Ultrasound Group
 - ◆ Work under the supervision of Dr. Ryan Jones
- Efficiently screen literature and summarize information

Technologies Used: MATLAB, ImageJ

Incendium Academy

Oct 2020 - Jun 2021

Co-founder, Software Developer

- **Co-founded** a non-profit education platform that aims to level the playing field for high school students who cannot afford STEM contest preparation
 - ◆ Received the **Rising Youth Grant** - national grant handed out to youth driving change in Canada
 - ◆ Hosted **80+** users across North America, with an overall impression of **500+ views**
- Lead a team of **15** people coordinating [website](#) development, product design, content creation, and marketing
- Directly supervised a sub-team of 4 software engineers assigning work and designing software architecture

Technologies Used: HTML, SCSS, YAML, liquid, LaTeX, ruby/jekyll, JavaScript, Git

Mackenzie Science Club

Sept 2017 - Jun 2021

Executive Event Designer

- Coordinated the chemistry branch of Mackenzie Science and Engineering Olympics (MSEO) for **300+** middle school students
- Designed and supervised **30+** weekly events for over **150** active club members
- Implemented the "Verify" Discord verification bot to help facilitate online club security

Model UN

Oct 2019 - Jun 2021

Secretary

- Structured club logistics using platforms like Discord, Zoom, and MUNCommand to ensure a smooth virtual experience
 - ◆ Introduced a club website to keep track of information and communications
- Ran mock committee sessions during weekly meetings to familiarize Model UN team with conference procedure

Contests & Achievements

- **GEO Model UN 2020:** Best Small Delegation against global competitors
- **Math Achievements:**
 - ◆ CSMC Top 3% (2019)
 - ◆ COMC Top Quartile (2019)
- **University of Guelph Science Olympics 2019:**
 - ◆ 1st place in chemistry event, 2nd in biology category

Education

University of Toronto

Engineering Science

Class of 2025 + PEY

William Lyon Mackenzie CI

MaCS Program Class of 2021

cGPA: 4.0

MaCS Program: Specialization in math and computer science.

Projects

Defeat the Heat: an educational PC game that teaches the player about fire safety

Home Security System: a real life home security system built with Arduino and C++

Portfolio: a website built from scratch, with a paginate blog feed and card project display

Simon Says: an interactive memory game based on a flashing colour wheel

Theatre Widget: an app that allows users to control theatre purchase/seating in a cinema

More projects can be found on my website.

Skills

Languages/Technologies:

Java, C/C++, MATLAB, HTML, CSS/SCSS, LaTeX, Git, jekyll, YAML, WeBots, VEXcode, 8085 Assembly, Turing, Arduino, SketchUp, TinkerCAD

Other:

English and Korean proficiency, LSS Lifeguard, Standard First Aid + CPR C