

# GORDON HAMILTON

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## SUMMARY

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Grade 11 International Baccalaureate student with a keen interest in Physics, Mathematics and Computer Science.

## EDUCATION

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### Notre Dame Catholic Secondary School

Sept. 2017 - Current

IB Courses: SL Physics, SL Math, SL French and HL Chemistry

Grade 10 Average: 91%

Awards: Honour Roll 2018 and 2019 for maintaining 80%+ average in Pre-IB Programme

### Centre linguistique du Collège de Jonquière

July 2019 - Aug. 2019

Explore Exchange Program: French Studies Certificate - 86%

## EMPLOYMENT

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### Checkup!, *Software Engineering Intern (Part-time)*, Hamilton, Ontario

Mar. 2020 - Current

Machine Learning Platform Team

- Checkup! is a Forge Company that allows doctors to remotely access patient Mental Health Data
- Developing Fullstack (Backend and Frontend) web application to process and store Customer Experience Tickets into a NoSQL database
- Will do research into machine learning algorithms to create models to label data

**Languages/Tools:** Javascript, NodeJS, Express, MongoDB, Mongoose, Python

## PROJECTS

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### Patatap Clone

Aug. 2019

- Fullstack project that visualizes keypresses and adds sounds
- Used frontend programming to display circles of randomized colors and sounds based on keyboard presses using Howler.js
- Created a Web application to serve the project using Flask Framework

**Link:** <https://github.com/gord02/Patatap>

**Languages/Tools:** Python, Flask, Javascript, Howler.js, HTML, CSS, Git

### Particle Fire Simulator

Aug. 2018

- Developed Particle Fire simulation using C++ Language
- Programmed the path and interaction of the particles created and subsequently visually depicted their interaction using the SDL Library
- Gained experience in Object Oriented Programming, GUI development and C++ programming

**Link:** <https://github.com/gord02/ParticleFire>

**Languages/Tools:** C++, SDL Framework, Markdown, Git

## SKILLS

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**PROGRAMMING LANGUAGES:** C++, Python, JavaScript, CSS, HTML

**WEB DEVELOPMENT:** NodeJs, Bootstrap, jQuery, Express, Flask

**DATABASE TECHNOLOGIES:** MongoDB, Mongoose

**VERSION CONTROL:** Git

## ACTIVITIES

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### Science Club, *Founder, Sole Facilitator*

Mar. 2018 - Current

Club for students to explore and share their passion for science with others. Aims to create a community that sparks student' interest in pursuing science as a career.

### World Issues, *Volunteer Member*

Nov. 2018 - June 2019

Participated in activities for the betterment of society through fundraising campaigns and social events that promote awareness of both global and local issues within our community

## ONLINE COURSES

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- Web Development Bootcamp (2019-2020)
- Beginner C++ (2018)
- Advanced C++ (In Progress)
- Python Beginner Class (2019)