

RYAN TSANG

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SUMMARY

- Proficient in Python, Html, css, Javascript, Git, Java, Racket, and Scheme.
- Experienced with React-based frameworks, as well as Gatsby (JSX).
- Interested in machine learning, genetic-algorithms and aesthetic front-end design.
- Good with people, approachable, adaptable, will finish any task if I start it.

PROJECTS

Earth Sense
[github](#) [devpost](#)

- 4 Sensors and a microcontroller sending data through Firebase updating live on a react-based website to determine levels of pollution in an area.
- Simulated heat-map drawn onto a google maps api, with a pathfinding software to help users avoid areas of pollution.

Sociiz
[github](#)

- Web based application built with Javascript, HTML, CSS, Flask, and Python.
- Updates the website live on a user-basis providing info pages for each location.
- If the program deems the location unsafe, an sms text is sent to all users of the application.

Memorizing app
[github](#)

- Phone application made in Swift which takes a chunk of text and slowly breaks it down for the user to assist them in memorizing any piece of text.

Tetris AI
[github](#)

- Self learning Genetic-algorithm based Tetris AI coded in Javascript which you can watch evolve on its own in real time right [here!](#)

Personal Website

- Website made with Gatsby which you can [check out here!](#) Or you can view it on [github!](#)

EXPERIENCE

Competitive Coding

- CCC 2020 - Achieved distinction in the Canadian Computing Competition.
- Attended several hackathons including Hack the north, NASA space hacks, and others.
- Winner at Hack the Hammer 2 — Canada's largest High School Hackathon.

Work Experience

- Tutor — 2017 (jan) - 2020 (aug)
- Tutoring students ranging from ages 6 - 16 in subjects ranging from english, french, math to advanced functions, calculus, vectors, and competition math.
- Badminton Coach — 2017 (jul) - 2018 (aug)
- Coaching students of all ages, teaching fundamentals and training those who play competitively at a provincial level.

EDUCATION

- Candidate for a Bachelor of Computer Science, 2020 - Present
- Studying computer science at the University of Waterloo.
- Currently a 4.0 gpa (91.4%)
- International Baccalaureate Diploma, 2016 - 2020
- At St Robert Catholic Highschool