RYAN TSANG

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SUMMARY OF SKILLS

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.
Simulated heat-map drawn onto a google maps api, with a pathfinding software capable of avoiding 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!

OTHER EXPERIENCE

Competitive Coding

CCC 2020 - Achieved distinction in the Canadian Computing Competition

Hackathons
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

Bachelor of Computer Science
Studying computer science at the University of Waterloo, 2020 - Present
Currently a 4.0 gpa (91.4%)

International Baccalaureate Diploma
At St Robert Catholic Highschool, 2016 - 2020