

# BRIAN GAO

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## SKILLS

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**Languages:** HTML/CSS, JavaScript, Ruby

**Frameworks/Libraries/Tools:** Git, Github, VS Code, Oracle VM, Linux, Ruby on Rails

**Courses:** The Odin Project, CS50

## PROJECTS

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### 🔗 Calculator | HTML/CSS, JavaScript, Git

- Implemented keyboard support by using event listeners to detect keypresses which increased user convenience
- Devised solutions to storing results by using HTML data attributes to ensure calculator functionality
- Constructed solutions to edge cases through rigorous testing to prevent unforeseen errors
- Incorporated transitions on the calculator buttons with CSS reflows to improve overall aesthetic and visually indicate change

### 🔗 Etch-a-Sketch | HTML/CSS, JavaScript, Git

- Employed DOM manipulation on background colour by using event listeners to simulate drawing
- Integrated Git to the workflow by installing required libraries to boost productivity and document code
- Modelled the HTML structure with flexbox and grid to make the webpage markup clean and scalable
- Implemented UI features such as an eraser, grid-size-changer, and array of different colours to boost the user experience

### 🔗 Rock-Paper-Scissors | HTML/CSS, JavaScript, Git

- Integrated animation with the @keyframes CSS rule to make the game lively and captivating
- Implemented dynamic scores and game icons with JavaScript to generate a response for user input
- Incorporated audio using online audio clips to integrate fun and humour into the webpage
- Developed the webpage almost entirely through Chrome developer tools to increase time to market

## WORK EXPERIENCE

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### Receptionist | Excel, Word, Gmail

Nov 2018 – Apr 2020

Ware Academy of Music

Toronto, ON

- Resolved conflicts with teachers/parents in a professional manner to contribute to the school's **4.4/5 stars** average rating
- Coordinated music recitals and parent meetups with Excel and Word to market the business
- Documented expenses and revenue in the company receipt book to maintain organization of the school
- Collaborated with co-workers by communicating with previous shifts to ensure a smooth transition of workload

## AWARDS

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### 2021 Top Scholar

Jul 2021

York Catholic District School Board

Thornhill, ON

- Placed in the **top 9 out of 5000** students in the York Catholic District School Board for academic excellence

### School Awards (9)

Jun 2021

St. Robert Catholic High School

Thornhill, ON

- Achieved **1st place** in the school for Grade 11:
  - \* Functions | Chemistry | Sociology, Anthropology & Psychology
- -and Grade 12:
  - \* Advanced Functions | Calculus & Vectors | Data Management | Chemistry | Physics | Religion

## EDUCATION

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### University of Waterloo

Waterloo, ON

Systems Design Engineering

May 2026

- Relevant Courses: Digital Computation, Introduction to Design

## HOBBIES & INTERESTS

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**Walking, Motivational Videos, Burgers, Basketball, Anime, K/DA**