BRIAN GAO

SKILLS

Languages HTML/CSS, JavaScript, Ruby **Frameworks** React, React Native, Node.js

Libraries/Tools React Navigation, Git, VS Code, Chrome Dev Tools, Oracle VM

PROJECTS

Etch-a-Sketch [2] | React, CSS, Git

- A web drawing application that supports features such as an eraser and different colours for an delightful user experience
- Reduced lines of code by 20% by refactoring entire project using React
- · Employed DOM manipulation on the drawing grid using React functional components and hooks to simulate drawing

Fitness 15 (XHacks Project) [| React Native, React Navigation, Node. js

- A mobile fitness app built with **React Native** that promotes healthy living by connecting people with gym buddies
- Implemented user authentication logic by extracting and comparing user input to data from database
- Designed screen navigation system with **React Navigation** to allow for a seamless user flow

Tic-Tac-Toe 🖸 | Ruby, Git

- A terminal-based recreation of Tic-Tac-Toe that features clear visuals and instructions so to increase user convenience
- Modelled system architecture after OOP principles, resulting in an increase in code encapsulation and reusability
- Integrated Git to the workflow by staging/committing often to create clean and documentable code

Calculator ☑ | JavaScript, HTML/CSS, Git

- A web calculator with complex functionality and keyboard support that emphasizes user-centered design
- Ensured a 0% failure rate by constructing edge and special cases and manually testing them against the code
- Facilitated temporary data storage using HTML data attributes to ensure that calculations were made correctly and quickly

EXPERIENCE

Incoming Firmware Team Member | Python, C, Confluence, Slack

Sep 2021 - Present

Midnight Sun Solar Car Team

Waterloo, ON

Completing onboarding process to program firmware and write unit tests to ensure 100% code coverage

Receptionist | Excel, Word, Gmail

Nov 2018 – Apr 2020

Ware Academy of Music

Toronto, ON

- Increased sales by 10% by cold calling 40+ past clients and pitching them new lessons
- Managed 15+ Excel spreadsheets containing info from 100+ students by documenting business expenses and goals

AWARDS

YCDSB 2021 Top Scholar

Jul 2021

York Catholic District School Board

Thornhill, ON

Received highest rating out of 5000 students for achieving a 100% average

School Awards (6)

Jun 2021

St. Robert Catholic High School

Thornhill, ON

• Achieved 1st place out of 400 students in 6 grade 12 subjects (3 math, 2 science, 1 humanities)

EDUCATION

University of Waterloo

Sep 2021 - May 2026

BASc in Systems Design Engineering

Waterloo, ON

• Relevant Courses: Digital Computation (C++), Graphical Design (OnShape), Introduction to Design

HOBBIES & INTERESTS