

Luke Zhang

Sir John A MacDonald Secondary School

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Website: luke-zhang.web.app

GitHub: github.com/Luke-zhang-04

Stack Overflow: <https://stackoverflow.com/users/12370337/luke>

Experience

Hack The Hammer

Hackathon, 2019

- Used Unity to create augmented reality animations with RFID readers and image detection.
- Scripted animations with C#.
- Full project on GitHub: <https://github.com/Luke-zhang-04/ARMuseumHTH>
- Roles:
 - Primary: Graphics and Animation

Web Development Competition

2019, <https://bay-street-popular-real-estate.firebaseio.com>

- Used HTML, CSS, and JavaScript to create a dynamic web application for a company "Bay Street Popular Real Estate".
- Used Firebase to create user authentication and over 1 000 datasets.
- Roles:
 - Primary: Front-end
 - Secondary: Back-end, database management

NASA Space Apps

Hackathon, 2019

- Used HTML, CSS, and JavaScript to create a dynamic web application.
- Solved a challenge preset by NASA given to people around the world.
- Used Firebase to create a database with over 4 000 datasets.
- Roles:
 - Primary: Front-end

The Golden Hack

Hackathon, 2019

- Used HTML, CSS, and JavaScript to create a dynamic web application.
- First time working with Firebase and created a user authentication system.
- Roles:
 - Primary: Front-end

JamHacks 3

Hackathon, 2019

- Worked with Unity to create a 2-D platformer
- Used C# to create algorithms for NPCs and objects
- Roles:
 - Primary: Full stack

SKILLS

Python 3: Highly experienced; used in competitive programming and project situations.

Web development: Highly experienced; used HTML5, CSS3, and JavaScript to create static and dynamic web applications.

Firebase: Highly experienced; used Google's real-time storage and user authentication to create web pages.

Golang: Experienced; used Go to solve Canadian Computing Competition problems.

Game and Mobile App development:

Experienced; experience using C# and Unity to create games, and AR mobile apps.

Adobe Photoshop: Experienced; used photoshop to edit photos and graphics for projects.

Design Software: Experienced; Experience using Autodesk Maya and AutoCAD.

C++: Somewhat experienced; used C++ to solve Canadian Computing Competition problems.

Achievements

DECA Regionals 2019 (Waterloo)

- Top Ten for the multiple-choice exam
- Top Ten for case studies
- Third place overall
- Provincial Qualifier

Received an **Academic Excellence Award** at Sir John A MacDonald Secondary School for the 2018-2019 school year

Achieved **distinction** in the following:
Pascal Math contest, 2019;
Mathematica Lagrange contest, 2018;
Mathematica Euler contest, 2017;
Beaver Computing Challenge, 2017.

Achieved **distinction** and a **perfect score** in the Beaver Computing Challenge, 2018

Academia

Sir John A MacDonald Secondary School | Sept 2018 -
current

Diploma expected Sept. 2022

COURSES (GRADE 9)

- AP science: 94%
- Academic English: 94%
- Exploring Computer Technology: 99%

COURSES (GRADE 10, MIDTERM)

- AP mathematics: 96%
- Introduction to Computer Science, Grade 11, University Preparation: 98%

Clubs and Teams

- Grade 10 year:
 - Debate club executive
 - DECA
 - Computer science club
 - Mathletes
 - Electric vehicle club
 - Junior band
- Grade 9 year:
 - Debate club
 - Computer science club
 - Mathletes
 - Electric vehicle club

Additional

- Participated three times in the **Canadian Computing Competition**
- Graduated from grade 8 with **honours**
- Awarded SOLOLEARN **Python 3** course completion certificate
- Awarded SOLOLEARN **HTML5** Fundamentals course completion certificate