

Jessica Zhu

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Skills

Languages: Java, JavaScript, HTML/CSS, Python, C++

Tools/Frameworks: Processing.js, Figma, GitHub, Android Studio, React.js, GatsbyJS

Projects

StatTrak | Java, Android Studio

Dec. 2019

- Developed basketball statistic tracking application in **Java** using **Android Studio** for AP Computer Science project, earning a final mark of **100% (highest in class)**
- Implemented functionality for data tracking, storage and export using modular programming techniques and **OOP** principles

Personal Portfolio | JavaScript, Figma, React.js, GatsbyJS

Aug. 2021

- Designed responsive site using **React.js** to display work and projects for future employers
- Self-learned** and used **Figma** to draft page wireframes and flow

POkaymon | JavaScript, Processing.js

Jun. 2019

- Created Pokémon battle simulator in **JavaScript** and **Processing.js**, with graphics and interactive keyboard controls, earning a mark of **100%** in grade 11 computer science course

Experience

SpartaHacks IV | Event Organizer

Nov. 2018 - Dec. 2019

- Worked with small peer team to host hackathon (~**100 attendees**)
- Led promotion and merchandise design, registered participants
- Secured sponsorships (**\$2000+**) from local businesses for supplies

Spartan Sports Association | Student Leader

Jun. 2018 - Jun. 2021

- Collaborated with other leaders to coordinate tournaments and fundraisers (e.g. Cent Cup, which averages ~**1600 attendees**)
- Strengthened **interpersonal skills** and **professionalism** through interactions with visiting schools' coaches, parents, players

Shad 2020 | Participant

Jun. 2020

- Cooperated remotely with 8-member team to design a simulated circulatory system intended for spaceflight
- Researched **Arduino** components (pressure transducer, flow meter, peristaltic pump, transistors, etc.) for use in experimental design
- Composed detailed report outlining objectives, procedure, project management (created **Gantt chart**) and impacts

Education

University of Waterloo

BASc. Candidate, Systems Design Engineering

Sept. 2021 - present

- Courses: Digital Computation (**C++**), Introduction to Design, Visualization (**Onshape**)
- President's Scholarship of Distinction (**\$3500 value**)

Centennial Collegiate

Vocational Institute

Sept. 2017 - Jun. 2021

- Earned top average in class of 350 in all grades (grade 12: **99.8%**)
- Won **NCWIT Award for Aspirations in Computing**
- Held **executive** positions in Chemistry Club (2 years), Grad Committee (1 year), CS Club (1 year)

Extracurriculars/Interests

Club/Varsity Volleyball

2017 - 2020

- Named MVP in consecutive seasons for **versatility**, and being a **team player**

Club/Varsity Basketball

2012 - 2020

- Named co-captain, All Star as a junior on varsity team
- Honed **time management** skills, balancing school with athletic commitments

Other Interests: cooking, movies, sport statistics, crochet