



# ZHEHAI ZHANG

*A student motivated to make a change in the tech industry*

## Contact

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<https://bit.ly/2nllW8v>

## Education

University of Waterloo Computer  
Science

2020-Present

Vincent Massey Secondary School

OSSD: 2020

Bellewood Elementary School

2006-2016

## Qualities

- Leader
- Confident
- Flexible
- Passionate
- Determined

## Interests

- Film and editing
- Graphic design
- VR and AR
- Android Dev
- Swimming
- Running
- Badminton

## Experience

### Swim Instructor and Lifeguard - Oct 2018 - Present

- Taught swimming lessons for over 10 swimmer levels with an average attendance of 6 kids per class
- Evaluated swimming levels at a Lifesaving Society Standard
- Maintained a safe environment in the pool and waterpark by enforcing rules and providing medical aid whenever necessary
- Provided beneficial information and assistance for 500+ guests at Adventure Bay daily

### Augmented Reality Application at MIT Media Lab

- Developed augmented reality systems in Unity and C#
- Operated with the HTC Vive Pro headset for dynamic depth analysis and camera
- Designed 3D models in Cinema 4D for application use
- Talked with professional mentors about various AR/VR APIs and SDKs such as Vuforia Studio, Autodesk Forge, and Leap Motion Orion Hand Tracking.
- Developed AR-itus, an AR rehabilitation hack that helps people with arthritis regain mobility

### Canadian Young Physicist's Tournament

- Used numpy, matplotlib, panda, and other python modules to interpret challenging physics problems
- Developed theoretical formulas involving aerodynamics, fluid dynamics, and magnetism
- Established practical models so experiment can be successfully replicated
- Worked with university level equipment such as the SEM, the GPR for subsurface imaging, and mirror laser

### SHAD Enrichment Program

- Engaged in STEAM based activities and experiential learning with a group of likeminded youth
- Lead a business team for "Flood Watch", an app designed to help people in flood prone areas in times of need
- Networked with successful entrepreneurs, CEOs, and companies such as Microsoft and Kinarm.



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## Extracurriculars

### University of Waterloo Hearthstone E-Sports Coach - Sept 2020 - Present

- Coached a competitive Hearthstone team and competed in tournaments

### Computer Science Club Teacher - Sept 2019 - June 2020

- Taught junior students competitive programming techniques and algorithms
- Organized local programming competitions on club website

### MasseyHacks Executive Team - Sept 2019 - June 2020

- Designed graphics and posters for hackathon event, as well as supervising and teaching workshops

### Science Olympiad Leader - Sept 2018 - June 2020

- Trained and prepared students for science olympiad competitions
- Organized science related activities for students every week

### "The Stang" Newspaper Publishing Team - Sept 2018 - June 2020

- Designed and published 5+ issues of the school newspaper
- Helped to digitally publish the newspaper: <https://masseystang.com/>

### Chess Club Leader - Sept 2018 - June 2020

- Lead and taught students to compete in the Ontario High School Chess Tournament
- Organized and lead monthly qualifier tournaments of around 20 students for the Ontario Chess Championship

### Swim Team Member - Sept 2017 - June 2020

- Competed in the 100m Freestyle, 100m Breaststroke, and Relay events
- Competed in regional and provincial swim meets, as well as OFSAA

### Debate Club Executive - Sept 2018 - Jan 2019

- Managed club affairs and tasks such as organizing attendance, making meeting notes, and judging debates and providing feedback
- Organized Massey Debate Invitationals, a bi-annual debate competition, where 30 teams from different schools came to compete: <https://masseydebate.com/>

### Math Contests and Enrichment - Sept 2014 - June 2020

- Bruce White's Math Enrichment program challenges and teaches students in many distinct aspects of mathematics. The program also pushes and prepares students for math contests such as AMC, COMC, CIMC, CNML, PASCAL, CAYLEY, EUCLID, etc.

### DECA Club Executive - Sept 2018 - May 2019

- Managed media and tech within the club
- Judged and gave feedback to students' case studies



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## Community Involvement

**CodeReach Teacher** - Sept 2018 - June 2019

- Prepared lesson materials
- Taught a class of 20 grade school students the Python programming language

**FLL Youth Mentor** - Sept 2017 - June 2019

- Lead and empowered youth on a Lego robotics team through EV3 programming and team building activities.
- Taught youth how to do project planning and design

**Central Public Library Chess Event** - June 2017 - August 2017

- Taught underprivileged kids how to play chess to promote learning
- Organized a chess tournament for 20 kids

**Hotel Dieu Grace Healthcare Hospital Volunteer** - August 2017 - September 2018

- Made and sold bake goods, coffee, tea, and cold drinks
- Interacted with patients

**Let's Talk Show** - Sept 2019

- Engaged in a TV talk show at the Windsor City Hall to talk about the Gordie Howe Bridge Project
- Met with engineers, business specialists and the vice president of the project to talk about logistics

## Awards and Certificates

- University of Waterloo National Math Entrance Scholarship - Present
- Euclid Math Contest Certificate of Distinction - Top 10%
- Distinguished Honour Roll - Over 90% (Grades 9-11)
- Computer Studies and Biology Award - Awarded to the student with the highest average in the course
- Youth Mentor Award - 2 times First Lego League Recipient (Provincial and Regionals)
- Canadian Computing Competition - Senior Top 8%
- DECA Case Study Provincials - Top 10 Case Study (Grades 9-11)
- University of Windsor Science Olympiad Competition - 1st Place
- Guelph Science Olympiad Math Competition - 1st Place
- French DELF Certification - B2 Level
- Emergency First Aid, Lifesaving, and Swimming Instructor Certified- Lifesaving Society
- Loran Scholar Semi-finalist- Present