

# Charles Zhang

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## Education

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**Grade 12, Lisgar Collegiate Institute** September 2014 – June 2018

- 97% GPA (Lisgar Silver Medal Recipient), enrolled in the gifted program
- Awards: Math Kangaroo Contest: 11<sup>th</sup> in Canada, second in Ottawa; Waterloo Avagadro Chemistry Contest 97<sup>th</sup> percentile in Canada; Chem 13 News 84<sup>th</sup> percentile in Canada; and 8 subject awards.

**Completed DELF B1 Certification**

November 2017

**University of Toronto Computer Science / Computer Engineering**

September 2018-2022

## Experience

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**Club Head, Lisgar Math Contest Club** September 2016 – Present

- Deliver interactive math lessons in topics such as number theory to over 25 students each week
- Organize additional math events such as the CTMC, a school-wide team mathematics competition
- Manage communication and promotion for the Math Department through social media and email

**President, DECA Business Club**

September 2016 – Present

- Lead a team of 5 student executives and run training for the DECA Team of 40 students
- Manage thousands of dollars in planning for the provincial DECA trip in Toronto
- Founded a bi-annual stock market challenge and a finance-themed escape room to promote financial literacy in the student population.

**Personal Math Tutor**

October 2017 – Present

- Independent tutor offering private sessions in math, primarily in Grade 12 Functions and Calculus
- Creates web-applets in partnership with the Lisgar Math Department to improve math education

**Founder, Lisgar Game Jam**

March 2017 – Present

- Worked closely with the Lisgar Computer Science Department to bring a hackathon to Lisgar
- Created and ran workshops in Processing, a Java based language, to introduce students to coding
- Promoted the event by creating a website, selling custom buttons, and advertising on social media

## Projects

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**Summer IOS and Android Development** August 2016 – October 2017

- Developed two separate mobile applications, EzJigsaw for IOS and TapeMeasure for Android. EzJigsaw is available on the IOS app store and was downloaded over 300 times in the first month.
- Practiced project management, testing, object-oriented programming, and revision control

**Arduino Development**

October 2016 – January 2017

- Worked with an integration of hardware and software to develop an autonomous maze-solving robot
- Developed hardware skills, including the creation and implementation of wiring diagrams

**Website Development**

October 2017 – Present

- Developed a personal website as well as websites for the Math Contest Club and DECA business club so that students can stay updated and access previous lessons
- You can find links to the club websites from my personal website, [charlesyz.github.io](http://charlesyz.github.io)

March 2017

**Tetris Neural Network Development**

- Over March Break, Self-learned Python and Machine Learning theory to develop an automated AI to play Tetris using a three layer Neural Network and a Roulette Genetic Algorithm evolution system.

## Skills

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- **Languages:** English and French
  - **Programming:** C++, C, Python, Swift, Java, Arduino, JavaScript, HTML, CSS
  - **Technical:** Xcode, Android Studio, Arduino, Microsoft Office, Photoshop