

Charles Zhang

Email: icharliezhang@gmail.com

Cell: (613) 600-2451

Website: charleszhang.ca

Education

Grade 12, Lisgar Collegiate Institute September 2014 – Present

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

Completed DELF B1 Certification November 2017

Experience

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

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

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