Charles Zhang

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Education

University of Waterloo
- Bachelor's of Computer Science (co-op program)   Expected Graduation: April 2023

Lisgar Collegiate Institute   September 2014 – June 2018
- 98% GPA (Lisgar Silver Medal Recipient), enrolled in the gifted program
- William Arid Ross Scholarship for highest performance in Grade 12 Mathematics
- Adam Ballantyne Scholarship for highest Grade 12 average
- Math Kangaroo: 11th in Canada, 2nd Ottawa; Avagadro Chemistry Contest 97th percentile in Canada;

Completed DELF B1 Certification   November 2017

Work Experience

Software Developer, Ciena   July 2018 – August 2018
- Developed software tools to migrate technical requirements from the DOORS legacy database to the new Jama database system. Used a combination of DXL and Python.
- Worked with Angular CLI and Materials to develop responsive and accessible internal web-apps
- Gained experience with Git, database systems, Dev-ops Lifecycle, and collaboration

Clubs

President, Lisgar DECA Business Club   September 2016 – July 2018
- Lead a team of 5 student executives and ran training for the DECA Team of 40 students
- Founded a stock market challenge and a finance-themed escape room to promote financial literacy.

Club Head, Lisgar Math Contest Club   September 2016 – July 2018
- Deliver interactive math lessons in topics such as number theory to over 25 students each week
- Organize and manage math department events, including planning, promotion, and execution.

Founder, Lisgar Game Jam   March 2017
- 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

Projects

Tetris Neural Network   March 2017
- Self-learned Python and Machine Learning theory to develop an automated AI to play Tetris using a thee layer Neural Network and a Fitness Proportionate Genetic Algorithm.

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

Skills

- **Languages:** English and French
- **Programming:** C++, C, Python, Swift, Java, JavaScript, HTML, CSS, Typescript, DXL, Arduino
- **Technical**: Git, Atlassian Suite, Dev-Ops, Docker, Scripting, Xcode, Android Studio, DOORS, Microsoft Office, Photoshop