

Bowen Luo

Phone #: 647-806-8859 | Email: bowen.luo@gmail.com | Portfolio: <https://plopqr.github.io/>

SKILLS

- Experienced in languages such as **Python**, **C#**, **Java**, & **C**
 - Working knowledge in **HTML**, **Javascript**, & **CSS**
 - Experienced in **Jira** (Agile), **Git** and version control
 - Familiar with tools such as **Pycharm**, **Visual Studio**, & **VS Code**
 - Languages spoken include English and Mandarin Chinese
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INDIVIDUAL PROJECTS

- Java projects in Processing | *2 Player Snake Game, Flappy Bird AI*
 - Built user-interactive **Java** projects in the game engine **Processing**
 - Usage of polymorphism and input processing
 - Implemented simulation of classical physics in object collision and gravity
 - Application of an **evolutionary algorithm** to learn to play Flappy Bird
 - English Detection Neural Network | *English Identifying Neural Network*
 - Developed a neural network from scratch in **Python** using the **Numpy** API to illustrate the results of machine learning on language recognition
 - Demonstrates the concept of **back-propagation** in learning algorithms using sigmoid activated perceptron layers
 - Web Portfolio | *Web Portfolio*
 - Designed and developed a website using **HTML**, **CSS**, **Javascript** & the **Bootstrap** API
 - Displays all aforementioned and other projects at <https://plopqr.github.io/>
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WORK EXPERIENCE

- HelloGbye www.hellogbye.ca | *Junior Developer* *May 2019 to August 2019*
 - Researched and implemented potential improvements (GRU, ELMo, Attention layers) to an existing ML model using **Keras** and **Tensorflow**
 - Wrote several parsers and tokenizers for JSON and natural language in **C#** and **Python**
 - Used Visual Studio T4 text templates to generate C# code
 - Worked in an **Agile** workflow and presented in sprint plannings and daily standups
 - McDonalds | *Crew Member* *October 2015 to June 2018*
 - Provided customer service on behalf of the McDonald's corporation including complaint handling, translations, and query response
 - Worked closely in a team environment, oftentimes teaching fellow co-workers from personal working experience
 - City of Markham | *Lifeguard* *November 2016 to February 2017*
 - Ensured poolside safety by supervising swimmers and convenience by resolving customer requests
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EDUCATION

- University of Waterloo | *Pursuing a Bachelor's of Computer Science*
 - Expected graduation: May 2023

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SKILLS

- Highly experienced in **Object Oriented Programming** languages including
 - Python, Java, and C
 - Experience in **Industry Standard Tools** including
 - Git, Maya 2016, ROS, and Ubuntu
 - Fair exposure to **Visual Studio**, and **Microsoft Office**.
 - Languages spoken include English and Mandarin Chinese
 - Experienced in **customer service** and **client interaction**.
 - Well versed in team-oriented work environments with strong initiative and communication skills
 - Developed **real-life experiences** in environments such as at work or school
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PROJECTS

- English Detection Neural Network | *Neural net that guesses whether a word is English*
 - Developed a neural network in Python using the Numpy API to illustrate the results of machine learning
 - Demonstrated the concept of back-propagation in complex learning algorithms
 - Used and manipulated object instantiation and structures in the storage of individual neurons
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WORK EXPERIENCE

- McDonalds | *Crew Member* *October 2015 to June 2018*
 - Provided customer service on behalf of the McDonald's corporation including complaint handling, translations, and query response
 - Worked closely in a team environment, oftentimes teaching fellow co-workers from personal working experience
 - Upheld corporation standards in food and sanitation
 - City of Markham | *Lifeguard* *November 2016 to February 2017*
 - Catered to the visitors by answering queries and providing accomodation for those with specific needs on behalf of the City of Markham
 - Ensured poolside safety by supervising swimmers and convenience by resolving customer requests
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AWARDS

- **Honour Roll** (Markham District High School)
 - Awarded for an overall average of above 80% in Grade 12.
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EDUCATION

- University of Waterloo | *Pursuing a Bachelor's of Computer Science*
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