

# Chenxiao Niu

<https://github.com/ShawnNew>

Email : niuc@mcmaster.ca

Mobile : (+1)905-923-6358

## QUALIFICATIONS

---

- **Machine Learning:** Major in Machine Learning and skillful at modelling the algorithm as well as optimization.
- **Software Development:** Strong skills with Java, Python, Android Development and Database.
- **Code Management:** Proficiency in VCT, like git, contribute and manage the University Greeting Website.
- **Teamwork:** Gained excellent teamwork and communication skills through the half-year internship at BMW China.

## EDUCATION

---

- **McMaster University** Hamilton, Canada  
*Master of Science in Electrical & Computer Engineering;* *Sep. 2017 – Present*
- **Beijing University of Posts and Telecommunications** Beijing, China  
*Bachelor of Electronic Information Engineering* *Sep. 2013 – Jun. 2017*

## WORK EXPERIENCE

---

- **BMW China** Beijing, China  
*IT Intern of Connected Drive* *Aug 2016 - Jan 2017*
  - **Greeting Robot:** Designed and Built a greeting robot used in the yearly BMW IT Roadshow, which has functionalities of NLP, Figure Detection as well as recommending car models to the guests.
  - **Scrum:** Imported Scrum workflow to the team, adjusted the conventional standard and formulated a customized regulation.
  - **Video Editing:** Edited a video for the team to compete the global IT Fair of BMW Group, and won the first place with a \$50,000 award.

## PROJECTS

---

- **University Greeting Website** Github, HTML  
*Git, HTML, CSS, JS* *Sep 2017 - Present*
  - **Github Management:** Manage the website's branch every two days using git.
  - **Website Update:** Modify and Update the contents of the Website by using rst and html.
  - **Issues Management:** Publish issues of the website, assign and deal with the issues.
- **Modern Art Application** Android  
*Java* *Sep 2017 - Oct 2017*
  - **XML:** Designed the layout of the application and created the User Interface in Android Studio by using XML.
  - **Java:** Imported and Implemented Android APIs using Java, realized functionalities such as Activity Invoking, SeekBar Listening and UI Interacting, etc.
- **Facial Expression Recognition System** MATLAB  
*Machine Learning* *Feb 2017 - Jun 2017*
  - **Gabor-Wavelet:** Detected and Captured the faces by using Gabor-Wavelet algorithm.
  - **Data Preprocessing:** Generalized and Normalized the JAFFE Database, extracted the features from the images using LBP, PCA and DCT algorithms.
  - **Neural Network:** Constructed and trained the network in MATLAB, gained a 90% accuracy of the test set.
- **Web Spider** Python  
*Big Data, Data Analysis* *Mar 2016 - Apr 2016*
  - **Scrapy:** Set up and maintained a web spider by using Scrapy, which aims at ZhiHu (the biggest question-and-answer website in China) to find out the relationship between users and to study the social network.
  - **Social Network:** Acquired and analyzed thousand-level user data using Pajek, and figured out who are the most subscribed people and the links between them.

## SKILLS & COURSES

---

- **Skills:** Java, Python, C++, Linux, Git, TensorFlow, MongoDB, MATLAB, HTML, CSS and JavaScript
- **Courses:** Machine Learning by Andrew Ng on Coursera; Programming Mobile Applications for Android Handheld Systems by U of Maryland on Coursera