Chenxiao Niu

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QUALIFICATIONS

- **Machine Learning**: Major in Machine Learning and skillful at modelling the algorithm as well as optimization.
- **Software and Web Development**: Proficient in Software and Web Development, take part in practical projects.
- **Code Management**: Good at Code Management and contribute to the University Greeting Website.
- **Problem Solving**: Good at raising problems and solving problems in projects.

EDUCATION

- **McMaster University** — Hamilton, Canada
  Master of Science in Electrical & Computer Engineering; Current GPA: 4.00 — *Sep. 2017 – Present*

- **Beijing University of Posts and Telecommunications** — Beijing, China
  Bachelor of Electronic Information Engineering; Overall GPA: 3.xx (xx/xx) — *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