Lixian Liu

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EDUCATION

York University   **ON, Canada**
Candidate for Hons. B.Sc. in Computer Science   January 2018 – Expected May 2021
- GPA 8.73/9.0

University of Toronto   **ON, Canada**
Hons. B.A. in Economics & Studio Art   September 2011 – December 2014

RESEARCH EXPERIENCE

Data Mining Lab at York University   **ON, Canada**
Undergraduate Researcher, Supervisor: Professor Aijun An   May 2020 – August 2020
- Research Presentation Video: https://youtu.be/tndvjygV9XU
- Developed a web application with Python and OpenCV that allows users to select various camera feeds and display video frames for the detection and tracking results of a Multiple Pedestrian Tracking algorithm developed by Dr. Mufleh Al-Shatnawi
- Worked in a GPU server and CONDA environment and learned the basics of running a deep learning algorithm
- Attended weekly seminar to stay up to date on the current research topics in data mining

Data Mining Lab at York University   **ON, Canada**
Research Assistant, Supervisor: Professor Aijun An   January 2020 – April 2020
- Designed a web interface that has the ability to communicate with the back-end server and retrieve data from the server to display a real-time graph comparing the speed of two neural network algorithms
- Gained experience in a lab environment and learned the fundamentals of data visualization and neural networks

AWARDS AND GRANTS

2020   **NSERC Undergraduate Student Research Award,** awarded a stipend of $8,000 to conduct research in the natural sciences and engineering
2019   **OSOTF Science Award,** given to the undergraduate student with the highest Faculty grade point average
2019   **York University Continuing Student Scholarship,** granted to undergraduate students who have achieved outstanding academic results

WORK AND TEACHING EXPERIENCE

FutureUp Education, Inc.   **ON, Canada**
Computer Science Tutor   May 2019 – Present
- Tutor a group of undergraduate students in different programming languages, such as C, Shell Script, and Java
- Prepare coding questions and weekly teaching slides

ArtSky Learning Centre   **ON, Canada**
Art Instructor   May 2016 – November 2016
- Taught a group of young children about modern drawings to increase their creativity
- Wrote appropriate critique for each art piece and communicated with parents about learning outcomes

Rogers Communication, Inc.   **ON, Canada**
Sales Associate   December 2014 – January 2016
- Increased the sales record by exceeding the weekly sales target; received top 5% sales award for Toronto region
- Wrote weekly reports covering the sales activity and performance of our store

- Interacted with customers in a patient and friendly manner in all situations

LEADERSHIP EXPERIENCE

York University   **ON, Canada**
Peer Tutor   January 2020 – April 2020
- Provided one-on-one peer tutoring for undergraduate students in the course of Discrete Mathematics

Class Representative for Professor Jeff Edmonds   September 2019 – December 2019
- Scheduled study sessions for students in the course of Fundamentals of Data Structures to review materials in a group and was responsible for a study environment that facilitated students improving individual grades
- Communicated feedback received from classmates to the professor

SKILLS

Art Portfolio: http://berlinbolin.wixsite.com/arts
Computer/Technical Skills: C, Java, JavaScript, Python, HTML, CSS, SQL, Unix, Shell Script, Microsoft Office, Photoshop
Languages: English, Cantonese and Mandarin