

# Neo Lou

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## EDUCATION

### **Bachelor of Applied Science in Engineering Science**

Expected Graduation May 2025

Faculty of Applied Sciences and Engineering, University of Toronto

- CGPA: 3.73/ 4.0
- UTSU First-Year Engagement Scholarship (\$1,500), 2021
- UofT Scholar Award (\$7,500), 2020
- UofT Faculty of Applied Science and Engineering Admission Scholarship (\$2,000), 2020
- Delta Tau Delta Award (\$5,000), 2020
- TD Bank Higher Education Award (\$9,472), 2020

### **Ivey Accelerate Program Certificate**

May 2020

Ivey Business School at Western University, London, ON

- Developed Leadership, Financial Accounting, Negotiations, and Communications skills

### **Upper Canada College (UCC), Toronto, ON**

Graduated May 2020

- Bilingual International Baccalaureate Diploma (IB Diploma)
- Ontario Secondary School Diploma (OSSD) – Point average: 96%
- UCC Principal's List – top 10% of class, 2019
- UCC General Proficiency Award – average above 90% in every course, 2019

## PROFESSIONAL EXPERIENCE

### **Tennis instructor (Full-time, 210 hours or 6 weeks/summer)**

Tennis and Sports Psychology Academy (TSPA), Montreal, QC

Summers of 2016, 2017, 2019

- Coached tennis to groups of 10 children (5-12 years old) and worked alongside other staff members
- Learned childcare, leadership, and teamwork skills

## CO-CURRICULAR/VOLUNTEER EXPERIENCE/LEADERSHIP

### **Structural and Fabrication Member, BSSR (Blue Sky Solar Racing), UofT, Toronto, ON**

Jan. 2021 – present

- Designed physical structure of different parts of a solar racing car
- Acquired fabrication, research, computer-aided design, and engineering simulation skills

### **Structures Member, UTAT (UofT Aerospace Team) Space Systems, UofT, Toronto, ON**

Sept. 2020 – present

- Designed physical structure of different parts of a space satellite
- Acquired research, CAD, Engineering simulation skills

### **Musician (percussionist), Skule Orchestra, UofT, Toronto, ON**

Sept. 2020 – present

- Commit to 3 hours of rehearsals/practice weekly and performed at school events

### **Musician (tenor vocals), Skule Choir, UofT, Toronto, ON**

Sept. 2020 – present

- Commit to 2 hours of rehearsals/practice weekly and performed at school events

### **Elected Engineering Director, UTSU Board of Directors, UofT, Toronto, ON**

March 2021 – March 2022

- Developed outreach, communication, advocating, and leadership skills
- Represented engineering students in monthly meetings and special meetings of the UTSU (UofT Student Union) Board of Directors, the highest-level decision-making body at the UTSU
- Worked in student-led committees

### **Math Tutor Volunteer, Saturday Program Mississauga, UofT, Toronto, ON**

January 2021 – April 2021

- Tutored student in Grade 12 Math (20 hours total) and acquired mentoring skills

### **Elected first-year representative, EngSoc Board of Directors, UofT, Toronto, ON**

Sept. 2020 – April 2021

- Developed outreach, communication, advocating, and leadership skills
- Represented first-year engineering students in monthly meetings and special meetings of the Engineering Society Board of Directors, the highest-level decision-making body in EngSoc
- Worked in Students Choice Award Committee (created student-nominated awards for instructors)

### **Exec. (Director of Administration), New College Residence Council (NCRC), UofT**

Sept. 2020-Apr. 2021

- Developed meeting chairing, event planning, organizational, and leadership skills
- Chaired and planned monthly General Assembly Meetings (around 35 people), weekly Executive meetings, Constitution Review Committee, Dining Committee
- Planned and organized ~10 residence-wide events with Executive Members

### **Musician (percussionist/drummer), Senior Jazz Band, UCC, Toronto, ON**

September 2019 – May 2020

- Commit to 4 hours of rehearsals/practice weekly and performed provincially and nationally
- Humber Next Generation Jazz Festival Gold Award (2020); Invitation to MusicFest, the Nationals (2020)

### **Musician (keyboard), Pit band, UCC, Toronto, ON**

September 2019 – May 2020

- Commit to 5 hours of rehearsals/practice weekly and performed in two school musicals

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## **Co-Head, Ping-Pong Club, UCC, Toronto, ON**

May 2019 – May 2020

- Developed event-planning and group leadership skills
- Planned club meetings and 2 school-wide tournaments
- Implemented new card scanning equipment-borrowing system

## **Member, Arts Council, UCC, Toronto, ON**

May 2019 – May 2020

- Attended monthly meetings; organized school-wide events to promote arts

## **Section leader (percussion), Senior Wind Ensemble, UCC, Toronto, ON**

September 2018 – May 2020

- Developed planning, mentoring, and leadership skills
- Commit to 3 hours of rehearsals/practice weekly and performed provincially and internationally
- WorldStrides OnStage in New York Gold Award (2019); OBA (Ontario Band Association) Yamaha percussion excellence award (2019); OBA Gold Award (2019)

## **Musician (tenor/bass vocals), Blue Notes (Choir ensemble), UCC, Toronto, ON**

September 2018 – May 2020

- Commit to 3 hours of rehearsals/practice weekly and performed regionally and internationally
- WorldStrides OnStage in New York Gold Award (2019)

## **Musician (drummer), Spirit Band, UCC, Toronto, ON**

September 2018 – May 2020

- Rehearsed/practiced (no fixed schedule) to perform in various school events

## **Tutor/Counselor (Volunteer), Horizons, UCC, Toronto, ON**

September 2018 – March 2020

- Volunteered weekly as tutor/counselor to inner-city elementary and high school students
- Soccer, Hockey Counselor (10 hours total)
- French, Math, Sciences, Economics Tutor (25 hours total)

## **Volunteer, UCC, Toronto, ON**

Sept. 2018 – March 2020

- Helped with organisation of various school events throughout school year (92 hours total)

## **Tennis Counselor, Tennis and Sports Psychology Academy (TSPA), Montreal, QC**

July 2016, 2017 and 2019

- Assisted coaching groups of children of 5-12 years old (210 hours total over 3 summers)

## **Member, Robotics Team, CND, Montreal, QC**

September 2017 – June 2018

- Built a robot with high school team for high school-CEGEP robotics competition
- CRC Robotics Convento 2018 Awards (1<sup>st</sup> place in Game, Video and Robot Construction), 2018

## **HONOURS AND AWARDS**

UofT MH Hacks (hackathon) RBC Innovation Award (\$250)

2020

Duke of Edinburgh's International Award, Bronze Level

2019

DECA Regionals Event Finalist

2018

## **SKILLS**

**Languages:** Fluent in English, French, Mandarin; Conversational in German (Deutsches Sprachdiplom of level B1 (2017)), Japanese

**Technical skills:** Programming (Python, C, MATLAB), Web Development (HTML, CSS), Computer-Aided Design (Solidworks, CATIA), Engineering simulation software (NX, Ansys), Circuit analysis software (LTSpice)

## **PROJECTS**

- Personal website with HTML and CSS
- Python program with algorithm to play Gomoku
- C program with algorithm for picture seam-carving to remove unnecessary details
- Race car's roll cage design and impact simulations (with BSSR)

## **INTERESTS**

**Music performance:** Proficient in piano (RCM Level 10 Piano Certificate, First Class Honours (2017)), guitar, drums, various percussion instruments, vocals

**Sports:** Enjoyer of sports and physical activities; Member of Football, Swimming, Cross-Country and Ultimate Frisbee (RSEQ Ultimate Frisbee Juvenile Division 3 Bronze Medal (2018)) teams in high school; Member of Ping-Pong club in high school and in Montreal; Member of house league hockey team in Montreal