

# LYNNE LIU

Computer Engineering, University of Toronto

✉ lynne.kailin.liu@gmail.com  
☎ (+1) 437-361-3606  
📍 33 Sheppard Ave E, North York, ON, CA  
📄 Portfolio: <https://unicoooool.github.io/>  
🌐 LinkedIn: <https://www.linkedin.com/in/lynne-liu-569241230/>

## EDUCATION

### University of Toronto

9/2021 - 5/2026 (expected)

*Bachelor of Applied Science and Engineering, minors in Engineering Business and AI, PEY co-op*

- Courses: Data Structure and Algorithms / Software Communication and Design (C++) / Probabilistic Reasoning / Financial Accounting / Organizational Behavior / Market Analysis / Intro to AI and ML (Python)

## SKILLS

**Technical Skills:** Git, Linux, Windows, Alteryx, SAP; Quartus, ModelSim, LTspice, Sue, Max; 3DSMax, Unreal Engine 4

**Certification & Achievements:** 2021 Fall - U of T Dean's Honour list

### Computer Languages:

- C (2 years experience): Reversi AI chess, Data Structures
- C++ (1.5 years experience): Interactive Mapping Software, Object-Oriented Programming
- Python (1 year experience): PyTorch, Machine Learning (Large Language Model)
- Other Languages: Assembly by ARM, Matlab, Verilog, HTML, SQL

## WORKING EXPERIENCES

### Senior Technical Student

Etobicoke, ON, Canada, 9/2024 - 8/2025

*Grid Maintenance Department, Toronto Hydro-Electric System Limited*

- Built and maintained Alteryx automation workflows and extracted operational data from internal databases, transforming insights into Excel dashboards and reports for performance tracking and presentation in review meetings.
- Contributed to the early-stage implementation of AI initiatives, supporting automation and predictive analytics across teams.
- Coordinated daily work assignments for field engineers and internal project coordination (budget, data analysis, etc.) using SAP, while communicating directly with clients to resolve scheduling needs.

### Solution Architect Internship

Jinan, Shandong, China, 5/2023 - 8/2023

*Jinan Techfin Information Technology Co., Ltd.*

- Assisted Marketing Analyst by brainstorming solutions to update the yearbook resulting in the funding proposal to be approved.
- Performed the public cloud's general development and maintenance process successfully by using the computational resources of the developed chip.
- Applied the company's proposal design guidelines to proofread the solution design proposal draft resulting in the revised proposal to be approved.

## PROJECT EXPERIENCES

### AI Initiatives - Chatbot

Etobicoke, ON, Canada, 9/2024 - 8/2025

*Toronto Hydro-Electric System Limited*

- Conducted benchmark testing and validation of AI chatbot responses for safety procedure document comparisons, identifying mismatches and inconsistencies.
- Collaborated with cross-functional teams to analyze discrepancies, document root causes, and recommend resolution steps for improved accuracy.
- Assisted in defining testing timelines, evaluation criteria, and feedback processes to guide Proof of Concept (POC) completion and tool refinement.

### Sentiment Analysis (Natural Language Processing), Python

Toronto, ON, CA, 6/2023 - 8/2023

*Applied Fundamentals of Deep Learning, formerly APS360 of University of Toronto*

- Coordinated a team of four by analyzing the project requirements, assigning tasks and reviewing/revising their work resulting in the program to achieve 85% validation accuracy in machine learning.
- Used PyTorch and Google Colab to finish a three-sentiment analysis program which including data preprocessing, Glove word embedding, and LSTM model, used accuracy and loss to improve the model, resulted in high training/testing accuracy.

## RESEARCH EXPERIENCES

### Pairwise dual-level alignment for cross-prompt automated essay scoring

Jinan, Shandong, CN, 6/2023 - 8/2024

*Shandong University of Finance and Economics*

- Collected and processed ~20K high school essays from a public website using Python (BeautifulSoup, Pandas), organizing data by grade level and content type for training and testing.
- Collaborated with the research team developing an NLP-based essay evaluation model inspired by GPT-2, GPT-3, and diffusion models.
- Supported data preparation that improved dataset quality and model training efficiency.
- Paper Link: <https://doi.org/10.1016/j.eswa.2024.125924>