

# Leyang Li

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## EDUCATION

**University of Notre Dame** | Notre Dame, IN

Graduation: May, 2026

*Bachelor of Science*

GPA: 3.95

Major: Computer Science

Supplementary major: Applied and Computational Mathematics and Statistics

Current Courseworks: Theory of Computing, Systems Programming, Linear Algebra & Differential Equation, Probability

**University of Notre Dame** | London, UK

May, 2023 – June, 2023

*London, England Summer Engineering Study Abroad*

Courses: Machine Learning for Engineers, Creative Programming with Processing

## EXPERIENCE

**Everbright Securities Asset Management CO., LTD** | Shanghai, China

July, 2023 – August, 2023

*Data Analyst Intern: Application of Machine Learning in Investment Forecasting*

- Analyzed research papers and identify potential machine learning strategies to improve **investment forecasting**
- Attempted to integrate additive, self, and multi-head sparse **self attention** modules to **GRU** model with **PyTorch.py**

## COURSEWORK

**Wine Quality Prediction** | University of Notre Dame (UK)

June, 2023

*Project for Machine Learning for Engineers: (<https://github.com/Leoreoreo/WineQualityPrediction>)*

- Learned machine learning theories and **sklearn.py** and **Tensorflow.py** implementations
- Predicted wine quality using **logistic regression** with SGD optimizer and different regularization methods

**Travel Data Visualization** | University of Notre Dame

May, 2023

*Project for Engineering Computing: (<https://leoreoreo.github.io/EGcomp-Final-Project-Web/>)*

- Provided information for users to make informed decisions about travel plans
- Cleaned and visualized **large CSV dataset** with **pandas.py** and **matplotlib.py**
- Created a corresponding website with **HTML** and **CSS** cooperatively using **Git**

## PROJECT AND RESEARCH

**Privacy Sandbox** | Notre Dame, IN

September, 2023 – Now

*Research Assistant: Privacy Sandbox web development (<https://github.com/Leoreoreo/relatedPosts>)*

- Participate in creating a website that generates virtual internet user personas used to analyze users' privacy loss
- Use **Flask.py** for backend, **React.js** for frontend, and **SQLite** for database
- Achieve semantic-search in persona information and construct Sankey relation diagram using **D3.js**

**Notre Dame Video Game Development Club** | Notre Dame, IN

February, 2023 – December, 2023

*Project: Dungeons and Domers game development (<https://games.vgdev.club/dungeonsanddomers/>)*

- Participate in developing a 2D dungeon crawler game with **Unity**
- Lead parts of room design, room tiles construction, and player camera programming

**Shanghai Adolescents Science and Technology Innovation Contest** | Shanghai, China

June, 2021 – October, 2021

*Project: Automatic Triangular Traffic Warning Sign*

- The **robotic** project involved PID algorithm, achieved using **C** for robot control and **MicroPython** for **OpenMV**
- Won 2nd prize at Shanghai Adolescents Science and Technology Innovation Contest
- Won China Thinks Big 2020-2021 National Trails 3rd prize and CTB Inventor
- Granted a patent and received high recognition from SAIC

**Institute of Microelectronics of Chinese Academy of Sciences** | Beijing, China

July, 2021 – August, 2021

*Research: Road Traffic Sign Recognition Based on Lightweight Neural Network*

- Compared the application of **YOLO-MobileNet-V1, V2, V3, and YOLO-V4-tiny** in traffic sign recognition
- Poster presented at The 10th Applied Optics and Photonics China (AOPC2021)
- Paper accepted by Society of Photo-Optical Instrumentation Engineers (SPIE)

## TECHNICAL AND LANGUAGE SKILL

**Technical:** C, Python (Flask, PyTorch, sklearn, Tensorflow), Java, JavaScript (React), HTML/CSS, SQLite, Matlab, Unity C#

**Language:** Mandarin, English