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

PROJECT AND COMPETITION

Ad Auditing | Notre Dame, IN   January, 2024 – Now
Research Assistant: Ad Auditing web development
- Create a Privacy Auditor tool to explore private data's usage within a system in an interactive, risk-free environment
- Develop relatedPost module *(https://github.com/Leoreoreo/relatedPosts)* with **Flask.py** and **React.js**
- Apply semantic-search in persona information and construct Sankey relation diagram using **D3.js**
- Integrate the module to Ad Auditing website with **Sanic.py** and **Next.js**

American Statistical Association DataFest 2024 | Notre Dame, IN   March, 2024
Competition: CourseKata Data Visualization and Analysis
- Analyzed CourseKata's dataset of student course experience cooperatively and made suggestions for improvement
- Cleaned and visualized **large CSV dataset** with **pandas.py** and **matplotlib.py**
- Evaluate features' effectiveness with Structural Equation Model (**SEM**) and Principal Component Analyses (**PCA**)

Privacy Sandbox | Notre Dame, IN   September, 2023 – December, 2023
Research Assistant: Privacy Sandbox web development
- Participated in creating a website that generates virtual internet user personas used to analyze users' privacy loss
- Used **Flask.py** for backend, **React.js** for frontend, and **SQLite3** for database

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
Competition: 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

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

TECHNICAL AND LANGUAGE SKILL

Technical: Python (Flask, PyTorch, sklearn, Tensorflow), JavaScript (React), Java, C, HTML/CSS, SQLite3, Matlab, Unity C#
Language: Mandarin, English