

# Jia Yee Wong

STUDENT AT UNIVERSITY OF NEBRASKA-LINCOLN

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## Summary

Data Scientist undergraduate student with <1 years of experience focusing on **Statistical Modeling, Artificial Intelligence, and Data Pipeline**.

## Skills

**Programming:** Python, SQL, R, HTML, JAVA

**Software:** Microsoft Office, Tableau, SAS, MATLAB

**Language:** English, Chinese, Cantonese, Malay, Korean

## Education

### University of Nebraska-Lincoln

Aug 2023 - May 2026

MAJOR IN DATA SCIENCE, MINOR IN STATISTICS AND DATA ANALYTICS

Lincoln, Nebraska

- Dean's List: Fall 2023, Spring 2024
- Relevant Coursework: Data Structure and Algorithm, Data Analysis, Database System, Deep Learning, Machine Learning and Linear Regression.

## Work Experience

### Great Eastern Life Assurance (Malaysia)

May 2024 - Aug 2024

DATA SCIENTIST INTERN

Kuala Lumpur, Malaysia

- Employed NumPy and pandas in Python for data cleaning, manipulation, and analysis, streamlining workflows and enhancing data-driven decision-making.
- Performed data verification, validation, and analysis using Excel, significantly increasing validation efficiency, and ensuring accuracy to provide actionable insights.
- Proactively identified and rectified missing, duplicate, and outlier data points, reducing errors by 20% and enhancing overall data integrity.
- Leveraged Tableau to develop interactive reports and dashboards, enabling agile decision-making.

### Starbucks, Nebraska Union

Oct 2023 - Present

BARISTA

Lincoln, Nebraska

- Handcrafted drinks for on-campus students in a fast-paced environment.
- Effectively worked with team members to ensure all orders were made accordingly and efficiently.
- Ensured a clean and organized working environment by practicing food safety.

### Husker Athletics

Sep 2024 - Dec 2024

STUDENT TUTOR - CSCE 320: DATA ANALYSIS

Lincoln, Nebraska

- Delivered personalized tutoring sessions to student-athletes, simplifying complex SQL queries, Python programming, and data manipulation using Pandas for better comprehension and practical application.
- Guided student-athletes through hands-on projects involving data extraction, transformation, and analysis with SQL and Python, ensuring a strong grasp of key concepts in data analysis.

## Projects

### LIGHT RAIL TRANSIT DATABASE MODEL | SEP 2024 - DEC 2024

- Developed and implemented a relational database model for a light rail transit system, connecting Omaha and Lincoln, Nebraska
- Designed and implemented an optimized SQL schema and developed dynamic queries for practical applications
- Collected, transformed, and visualized geospatial data using MATLAB, applying piecewise linear approximations to model train routes, compute distances, and present routes on a geographic map

### DEEP REINFORCEMENT LEARNING AGENT FOR PAC-MAN | AUG 2024 - DEC 2024

- Developed a Deep-Q-Network (DQN) agent to play Pac-Man, using decision-making to maximize cumulative rewards and gameplay effectiveness
- Implemented a convolutional neural network (CNN) to process grayscale images, allowing spatial feature recognition for action selection
- Configured the Atari environment for game-state tracking and integrated frame-skip techniques to improve computational efficiency
- Monitored model performance using metrics such as average score and win rate to achieve improved gameplay and strategic responsiveness.