

# Jia Yee Wong

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## EDUCATION

### University of Nebraska Lincoln

B.S. in Data Science, Minor in Statistics and Data Analytics

Dean's List: Fall 2023, Spring 2024

**Focus Area:** Statistical Modeling, Artificial Intelligence and Data Pipeline

**Relevant Coursework:** Data Structure and Algorithm, Data Analysis, Database System, Deep Learning, Machine Learning and Linear Regression

Fall 2023 – Present

CGPA 3.85/4.0

## SKILLS

**Language:** English, Mandarin, Cantonese, Malay and Korean,

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

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

## PROFESSIONAL EXPERIENCE

### Great Eastern Life Assurance (Malaysia) Berhad

Kuala Lumpur, Malaysia

Data Scientist Intern

Summer 2024

- 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

## PROJECTS

### Light Rail Transit Database Model

Fall 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

Fall 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
- Monitor model performance using metrics such as average score and win rate to achieve improved gameplay and strategic responsiveness

## ADDITIONAL EXPERIENCES

### Starbucks, Nebraska Union, Lincoln, Nebraska

Fall 2023 – Present

Barista

- 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

### Nebraska Athletics, Lincoln, Nebraska

Fall 2024

Student tutor – CSCE 320: Data Analysis

- 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.

## LEADERSHIP EXPERIENCES

Irving Recreation Center, Volunteer

Fall 2023

American University Program Society (Malaysia), Head of Logistics

Spring 2022 – Summer 2023

Asia Pacific Invitational Dodgeball Malaysia 2023, Team Member

Summer 2023

National Dodgeball Championship 2022, Team Member

Summer 2022

### Leadership Management

- Assisted in planning and coordinating a Homecoming event for > 300 students and faculty members
- Executed creative decoration plans and transformed venues into thematic environments with team members
- Negotiated service provider contracts which resulted in receiving a 10% discount for photography service at a Homecoming event