

# Sean Wang Jun Lim

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**AI Developer and Data Scientist** specialised in **Computer Vision** and **Machine Learning**.

## WORK EXPERIENCE

**AITIS (AITI Solutions)** | *Machine Learning Engineer* | London, UK July 2024 – September 2024

Researched and developed in **computer vision** for a client-focused accident prevention system in construction sites.

- Developed deep learning models for accident prevention in construction sites using YOLOv8 and OpenCV.
- **Improved** accuracy by 22% using advanced **image preprocessing** and edge detecting methods.
- **Created** and **evaluated machine learning models**, optimizing performance in real-world applications.
- **Documented** model **performance** and **architecture** to ensure reproducibility.

**Plant & Mill Motion Control Sdn. Bhd.** | *Robotics Engineer* | Penang, Malaysia April 2023 - July 2023

Specialised in documentation of company-based software and hardware to enhance user experience.

- Developed software in **Python** and **C++** based on client specifications for **motor control systems**.
- Conducted tests and documented software on motor functionality through detailed video demonstrations.
- Streamlined software development process to ensure user-friendly operation and maintenance.

## ACADEMIC RESEARCH

**PALMS (Pavlovian Associative Learning Models Simulator) Leader** | *Python, PyQt, GitHub, Leadership*

- **Led** a group of 4 to create a simulator for associative learning models in a custom-made app in Python using PyQt.
- Developed a UI and showcased results from back-end algorithms to the front-end.
- Streamlined front-end development to provide a user-friendly and accessible environment for users.

**Chatbot with Sentiment Analysis** | *Python, Pytorch, Natural Language Processing, Transformers, LSTM, Wandb*

- Developed a **sequence-to-sequence model** to generate context-related replies based on given prompts.
- Built a sentiment analysis model achieving 80% accuracy in classifying the sentimentality of sentences.
- **Logged** training and evaluation of the models using **Wandb**.

## PROJECTS PORTFOLIO

**SLAM Robotics Competition Leader** | *Python, NumPy, GitHub, YOLO, OpenCV, Arduino*

- **Led** a team of 4 to develop and train a robot to differentiate between various fruits using **image segmentation** through Convolutional Neural Networks (CNN) and **YOLOv5**.
- Utilised efficient **path-finding algorithms** to increase speed to finish race.

## EDUCATION

**MSc Artificial Intelligence** | City, University of London First Class Distinction

**Bachelors of Robotics and Mechatronics Engineering (Hons)** | Monash University Upper Second-Class

## SKILLS AND LANGUAGES

- \* **Programming Related:** Python, C++, MATLAB, PyTorch, TensorFlow, OpenCV, YOLO, Git, NumPy, Pandas, SQL
- \* **Expertise:** Computer Vision, NLP, WandB, Machine Learning, Reinforcement Learning
- \* **Languages:** English (native), Mandarin (fluent), Malay (fluent), Japanese (conversational)