

JERRICK LIU

Software engineer

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🔗 Github - <https://github.com/JerrickLiu>

📍 Dayton, Ohio



SUMMARY

Aspiring computer science student with a deep passion for deep learning. Eager to explore more in the world of machine learning with cutting-edge research

EXPERIENCE

Research intern

Air Force Research Laboratory

📅 07/2020 - 09/2020 📍 Riverside, US

- Used MineRL, a reinforcement learning environment based in Minecraft to train agents through imitation and deep reinforcement learning to achieve certain objectives in the game
- Used TensorFlow and reinforcement learning algorithms such as proximal policy optimization (PPO) to maximize the rate at which agents learn to play Minecraft and to understand how A.I. agents do in long-term planning

Research intern

Air Force Research Laboratory

📅 07/2019 - 09/2019 📍 Riverside, US

- Used PyTorch, a deep learning platform, to research convolutional neural networks and various ways to implement deep learning techniques to improve image classification in drones
- Implemented various Explainable AI techniques such as Gradient Weighted Class Activation Mapping (GradCAM) and SHAP to visualize and better understand layers of neural networks

STRENGTHS

✍️ Oral and written communication

💡 Creative problem solving

👥 Team building

SKILLS

Python

Java

Git

PyTorch

Tensorflow

Machine learning

Deep reinforcement learning

Data structures and algorithms

Docker

EDUCATION

Bachelor's of
Science in
Computer
Science

GPA

4.0 / 4.0

The University of Illinois
at Urbana-Champaign

📅 2020 - 2024

High school
Diploma

GPA

4.90 / 5.33

Centerville High School

📅 09/2016 - 06/2020

LANGUAGES

English

Native



Mandarin

Proficient



Spanish

Intermediate

