Wang Boxiang
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EDUCATION

Nanyang Technological University (NTU) Aug 2018 – ***May 2022*** (Expected)
- **Bachelor of Engineering (Electrical and Electronic Engineering);** Minor Study: Mathematics
- **Honours (Highest Distinction)** (Expected), current CGPA: 4.90 / 5.00
- Relevant Modules: (1) *Introduction to Data Science & Artificial Intelligence* (2) *Computer Communications* (3) *Data Structure and Algorithms* (4) *Introduction to Operating Systems (Ongoing)*

Overseas Summer Session Program, University of California, Los Angeles Jun 2019 – Aug 2019
- Gained new perspectives and insights into America economic issues through discussions in class

ACADEMIC & MODULE PROJECT / RESEARCH EXPERIENCE

NTU Final Year Project (FYP) Aug 2021 – Present
FYP Project: ***Unsupervised Domain Adaptation for Object Recognition***
- Created a machine learning model to do classification and regression Artificial Intelligence tasks in the area of Computer Vision
- Deployed Convoluted Neural Network layers with *TensorFlow* to reach an accuracy around 98% of classification task

NTU EEE Design & Innovation Project (DIP) Aug 2020 – Dec 2020
DIP Project: ***Detection of Non-human Faces***
- Created a deep learning model with deep learning structures to do classification and regression Artificial Intelligence tasks in the area of Computer Vision
- Deployed EfficientNet and ResNet with *TensorFlow* to reach an accuracy around 98% of classification task

NTU Undergraduate Research Experience on Campus (URECA) Aug 2019 – May 2020
URECA Project: ***Design a Virtual Reality Game using Artificial Intelligence***
- Developed a system to help patients with bone problem for rehabilitation
- Promoted virtual reality usage by producing interesting game based on Unity and *C# Programming*

INTERNSHIP

National University of Singapore, *Intern Researcher* May 2021 – Present
- Design new GPU parallelism structures for deep learning neural networks
- Reach a speedup of 1.45X compared to state of art parallelism structure
- Design a integrated large-scale model training framework with efficient parallelization techniques

Huawei International Pte Ltd, *Intern Researcher on AI Security* Jan 2021 – Aug 2021
- First introduced the third class of Membership Inference Attack with Facial Recognition task and Transfer Learning
- Managed to develop current Membership Inference Attack with higher accuracy
- Implement Membership Inference Attack on language dataset and implement Membership Inference Attack with Graph Neural Network

RESEARCH INTERESTS

- **Machine Learning**: Deep Learning, Computer Vision, Natural Language Processing, Recommendation System
- **High Performance Computing**: Distributed Systems, Parallel Computing

AWARDS & ACHIEVEMENTS

- Dean's List Student Award, NTU (top 5%) 2019 - 2020, 2020 - 2021
- Science and Technology Undergraduate Scholarship, NTU Aug 2017 – Present
- GRE score: 327/340

SKILLS

- **General**: C / C++, MATLAB, Java, HTML, JavaScript
- **Tools**: PyTorch, TensorFlow