

Jet New

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.COMP. IN COMPUTER SCIENCE
UNIVERSITY SCHOLARS PROGRAMME
TURING RESEARCH PROGRAMME
GPA: 4.53/5 or 3.62/4
Grad. May 2023

COURSEWORK

Undergraduate

Machine Learning (*Teaching Assistant*)
AI Planning & Decision Making
Natural Language Processing
Computer Vision & Pattern Recognition
Research Methodology
Software Engineering
Data Structures & Algorithms

Postgraduate (Guest Student)

Deep Unsupervised Learning
Deep Learning for NLP

SKILLS

Data Science

PyTorch • TensorFlow • Keras
Jax • TensorBoard • WandB
NumPy • Pandas • Matplotlib
HuggingFace • SpaCy • NLTK

Programming Languages

Python • SQL • Java

Software Engineering

Jupyter • Git • Anaconda • Docker

WINNING PROJECTS

SMAWM (Multi-Agent RL)

You Play Ball, I Play Ball (Multi-Agent RL)

The Chosen One (Multi-Agent RL)

Optigram (Data Visualization)

CARElytics (Natural Language Processing)

OTHER ACTIVITIES

NUS Statistics & Data Science Society

(*President*)

Google Developer Student Club

Google Code in the Community

Advisory Singapore

WORK EXPERIENCE

INDEED | DATA SCIENTIST INTERN

May 2022 - Jul 2022 (3 months)

- Incoming intern. To analyze, visualize and model job search data, and to build machine learning models to make timely decisions for internet-scale products.

NUS CLEAR LAB | AI STUDENT RESEARCHER

Dec 2021 - Present

- Researching graph neural networks for model-based multi-agent reinforcement learning, advised by **Prof. Lee Wee Sun & Prof. Harold Soh**.
- Built reinforcement learning task environments using Unity ML-Agents.

Nov 2020 - Nov 2021 (12 months)

- Researched model-based reinforcement learning, advised by **Prof. Harold Soh**.
- Wrote a **survey paper** on model-based reinforcement learning.
- Presented paper summaries on **SwAV** and **Dreamer**.

GRAB | INTERN, MACHINE LEARNING ENGINEER

May 2020 - Aug 2020 (3 months)

- Built **Simkit**, a generative and probabilistic modelling framework in TensorFlow, used in Grab's internal dynamic pricing algorithm.
- Performed benchmarking on industry datasets by implementing performance visualisations & empirical metrics.
- Presented to the data science community at **Google Developer Space**.

IMDA | EXECUTIVE, MACHINE LEARNING

Nov 2018 - Jun 2019 (8 months)

- Developed and benchmarked an **anomaly detection algorithm** that secured a \$500K project deal and deployed as 2 clients' main solution.

RESEARCH PROJECTS

STRUCTURED MULTI-AGENT WORLD MODELS

Aug 2021 - Nov 2021

- Researched graph neural networks for multi-agent model-based reinforcement learning, improving performance and planning accuracy.
- Awarded CS4246 Class Project Competition Winner out of 142 students.

BARLOW TWINS FOR REINFORCEMENT LEARNING

Nov 2020 - Nov 2021

- Researched (NUS CLeAR Lab) contrastive learning for model-based reinforcement learning, improving robustness on complex visual control tasks.

AWARDS

2021 CS4246 Class Project Competition

Winner out of 142 students

2021 NUS SoC Student Awards

Silver (Achievement)

2021 Optigram Data Visualisation Competition

1st Runner Up

2021 University Scholars Programme

Honour Roll

2020 NUS Computing Term Project Showcase

1st Place out of 78 projects

2020 HackAsia Global Hackathon

Top 10 finalists out of 54 teams

2019 NTU iNTUition Hackathon

Best AI Hack out of 130 participants