

Larry Law ☑🌐🌐

Computer Science Senior, National University of Singapore
Natural Language Processing Research Intern, DSO National Laboratories



EDUCATION

- **National University of Singapore** *Aug. 2018 – May. 2022 (expected)*
Bachelor of Computing in Computer Science; CAP: 4.42/5
- **Raffles Institution** *Jan. 2010 - Dec. 2015*
GCE 'A' Levels; 6/7 Distinctions

HONOURS AND AWARDS

- Dean's List *Jan. 2021 - May. 2021*
- Invited to the NUS research programme (Turing Programme) *Jan. 2021*
- Placed on the University Scholar's Programme (USP) Honour Roll *Aug. 2019 - May. 2020*

WORK EXPERIENCE

- **DSO National Laboratories** *May 2021 - Present*
NLP Research Intern, supervised by Dr Chieu and Prof Lee Wee Sun
 - Proposed to apply **co-training for semi-supervised, cross-lingual rationale extraction** (*Thesis here*).
 - **Reduced the rationale error rates** between partially and fully supervised models by **51.7% and 50.4%** for the English and French models **with only 0.2% of labelled training examples**.
 - Implemented rationale extraction research paper using **PyTorch and HuggingFace**.
- **National University of Singapore** *May 2020 - May 2021*
Research Student, supervised by A/P Bryan Low
 - Proposed to **integrate non-myopic bayesian optimisation with network morphism for neural architecture search** (*Thesis here*).
 - Implemented network morphism research paper using **PyTorch**.
 - Recommended to the Turing Research Programme by A/P Bryan Low.
- **AXA Singapore** *May 2019 - Aug 2019*
Software Engineer Intern
 - Set up **state management system, integrated tests and unit tests** for the insurance ecommerce product with **React Hooks, Jest, and Cypress** respectively.
 - Wrote simple **bash scripts to automate contribution process** for internal shared library, **reducing time taken for the process by 20%**

PROJECTS

- **Automatic Github Issue Labeller** *Mar 2021 - May 2021*
CS4248: Natural Language Processing
 - Published a Github Action that uses **NLP to automatically label github issues** (*Demo here*).
 - **Fine-tuned BERT** with scraped github issues. Deployed model using **Docker**.
 - **Outperforms traditional regex approaches** in F1 score by **0.51**.
 - Labeller is **used by the WING-NUS research group**, led by A/P Min-Yen Kan.

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, Java, Bash
- **Technologies:** PyTorch/TensorFlow/Keras, HuggingFace/AllenNLP, Scikit-Learn/pandas/numpy, Docker, React

RELEVANT COURSEWORK

- **Computer Science:** NLP, Information Retrieval, Deep Learning, Machine Learning, Artificial Intelligence
- **Mathematics:** Discrete Mathematics, Calculus, Linear Algebra I & II, Probability, Statistics, Mathematical Analysis I