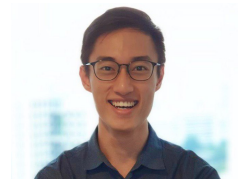# Larry Law ✉ 🌐 ⭘

Final Year Computer Science Undergraduate, 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; University Admission Score: 87.5/90

HONOURS AND AWARDS

- Dean's List   *Jan. 2021 - May. 2021*
- Invited to the Turing research programme by A/P Bryan Low and Professor David Hsu   *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 Assistant, 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** on the Github marketplace *(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.
- **Do We Know Singapore's Trees Bettter Than Machines?**   *Aug 2021 - Nov 2021*
  CS5242: Neural Networks and Deep Learning
    - Implemented **simple MLP, CNNs, RNNs, and ANNs** for the problem of **recognising the most common trees in Singapore**. *(Demo here)*
    - Built **simple machine learning pipelines** for **training, debugging and results analysis** using **Pytorch**.

PROGRAMMING SKILLS

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