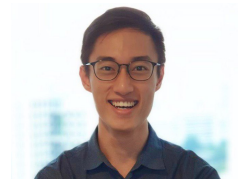


# Larry Law ☑🌐🌐

Final Year Computer Science Undergraduate, National University of Singapore  
Natural Language Processing Research Intern, DSO National Laboratories



## EDUCATION

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- **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

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- 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

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- **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, Cypress, and Jest** respectively.
  - Wrote simple **bash scripts to automate contribution process** for internal shared library, **reducing time taken for the process by 20%**

## PROJECTS

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- **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 Better 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; please open Demo in Colab*)
  - Built **simple machine learning pipelines for training, debugging and results analysis** using **Pytorch**.

## PROGRAMMING SKILLS

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