

# Larry Law

RESEARCHER · MACHINE LEARNING · NATURAL LANGUAGE PROCESSING

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“Sine Finibus”



## Education

### National University of Singapore

B.S. IN COMPUTER SCIENCE & MINOR IN MATHEMATICS

Singapore

Aug. 2018 - May 2022

- Scholar in the **University Scholar's Programme**, a multidisciplinary academic programme wherein I learn to write and think critically.
- Relevant Coursework: Research Methodology (A+), Intro to AI (A-), ML, SWE (A), DS & Algos (A), NLP (intended), IR (intended), most math 1/2K

## Experience

### MapleCG

RESEARCH STUDENT

Singapore

May 2020 - Now

- Worked on **integrating Non-Myopic Bayesian Optimisation with Network Morphism for Neural Architecture Search**, with A/P Bryan Low.
- At the point of writing, this work is the first to integrate non-myopic BO with NM on NAS.
- **Recommended to be part of the Turing Programme (NUS research programme) by A/P Bryan Low.**
- Links: [Report] [Slides]

### CS2309: Research Methodology

RESEARCH STUDENT

Singapore

Aug 2020 - Nov 2020

- Worked on **DuckieNet, a model which integrates planning with Semantic Segmentation for Goal-Directed Autonomous Navigation in Crowded Environments**, with Professor David Hsu. (*Keras/TensorFlow/PyTorch, Scikit-Learn/ numpy*)
- **Recommended to be part of the Turing Programme by Professor Hsu. Module grade: A+.**
- Links: [Report] [Demo][Code]

### AXA Singapore

SOFTWARE ENGINEERING INTERN

Singapore

May 2019 - Aug. 2019

- Refactored Form Builder, an API which automates the rendering and configuration of a Form JSX from a config JSON (*MERN stack*)
- Set up state management system, integrated tests and unit tests for life insurance ecommerce product (*React Hooks, Cypress, Jest*)
- Wrote simple bash scripts to automate contribution process for internal shared library, reducing time taken for the process by 20% (*Bash*)

## Projects

**Basically England!** Built a NLP model that detects when our professor uses filler words, for CS3244: *Machine Learning*. Team Lead for project. Project earned full marks (Median: 37/45). Links: [Report] (*Keras, Scikit-learn/pandas/numpy*)

**Sumobot.** Won 3rd/4th in the intra school Sumobot competition under CS1101S: *Programming Methodology*. Fight can be viewed here.

**Online Courses.** Machine Learning & Deep Learning (intro to CNN, NLP) by Andrew Ng, Bash guide for beginners.

## Honours

2018-Now **Peer Mentor** for USP computing freshman.

2020 Placed on the **USP Honour Roll** based on academic achievements and contributions to the USP community.

2020 **Recommended to be a USP Writing Assistant** by A/P Barbara Therese Ryan.

2010-2015 Led the Raffles Institution cross country team to the National title as **Team Captain**. Improved from failing to make the running team in 2010, 2011, 2012 to **National 2nd in the 1500m** in 2015.

## Technical Skills

**Languages** Python, Bash, Java, Javascript

**Frameworks & Libraries** Keras/TensorFlow/PyTorch, MERN stack, Scikit-Learn/ pandas/numpy, CI/CD