



# Justin Lee

MECHANICAL ENGINEER,  
ENTERPRISING SOFTWARE ENGINEER

## Career Summary

Aspiring Software Engineer, excellent experience in *Python, C, JavaScript, and MatLab*. Superb leadership skills. Determined to have a strong engineering foundation, with exposure in AI, Programming, and Robotics.

## Areas of Expertise

- Languages: *Python, JavaScript, SQL, MatLab, C, Ruby on Rails*
- Critical Thinking: Skilled in thinking from multiple perspectives for problem-solving
- Leadership: Plan and manage large-scale projects

## Personal Information

Phone No.:

+447762711868

Email:

Justin.lee18@imperial.ac.uk

LinkedIn:

linkedin.com/JustinLeeZY

Personal Website:

jstnlee1997.github.io/Personal-Website/

GitHub:

<https://github.com/Jstnlee1997>

## Certificates

- Machine Learning with Python
- Programming Foundations with JavaScript, HTML and CSS
- SQL for Data Science

## Qualifications

### MASTER OF COMPUTER SCIENCE

Imperial College London ~ Oct 2021 - Oct 2022

### BACHELOR OF MECHANICAL ENGINEERING

Imperial College London ~ Sep 2018 - June 2021

- Achieved Dean's List, 1st Class, and Straight A's ~ 2020 (Year 2)
- Top 10 in cohort for Computing Course (Python) ~ 2020
- Programmed a microcontroller in *Embedded C* to navigate a buggy using colour sensors
- Coded a 2D simulation of diffusion of water pollution using *Numerical Methods*
- *Specialising in Statistics*

### SINGAPORE - CAMBRIDGE GCE A LEVEL

Hwa Chong Institution ~ Jan 2014 - Dec 2015

- Physics(A), Chemistry(A), Mathematics(A), Project Work(A)

## Work Experience

### GOVERNMENT TECHNOLOGY AGENCY (SIN)

Software Engineering Intern ~ Jun 2020 - Sep 2020

- Programmed a *Weighted Decision Tree* algorithm using JavaScript for a car park simulation - to aid drivers in locating their optimum parking lot, and tracing their route using a *Depth First Search* method.
- Utilized Python to *automate* a tedious process of stitching over 4000 images into numerous 5x5 grids.

### SYSTMZ PTE LTD (SIN)

Design Engineering Intern ~ July 2019 - Sep 2019

- Developed an *innovative process* using CAD to fabricate mock-ups with elaborate shapes and surfaces, saving material while still showcasing the overall structure.
- Designed *highly modular* wall structures and bedside cabinets that successfully cater to the specific needs of nurses and patients.

### SINGAPORE ARMED FORCES

Infantry Company Officer ~ Jan 2016 - Nov 2017

- *Trained and mobilized* a company of 120 soldiers ensuring they are operationally ready for combat.
- Overall *in-charge of safety and the head contingency planner* of the display show in Army Open House that catered to 30000 members from the public.

## Interests

### Projects/Challenges:

- Twitter-Like App ~ 2021
  - Developed a web-based application using *Ruby on Rails*
- Hacktoberfest ~2020
  - Coded an *Automated Python* script that utilizes *YouTube API*
- Dyson Makeathon ~ 2020
  - Designed astronaut gloves that enhanced the sensory experience by creating vibrations and sounds from the various contact surfaces
- Hack for Humanity ~ 2019

### Ultimate Frisbee:

- *Captain* for varsity team ~ 2020 - 2021
- *Coach* for varsity team ~ 2019 - 2020

### Canoeing:

- National Inter-school 'A' Division *Overall 1st Placing* ~ 2014 & 2015
- Singapore Canoe Marathon Senior Category *1st Placing* ~ 2015

### Volunteering:

- *Organised* a 24-Hour Static Kayaking Challenge to raise \$30000 for MDAS ~ 2014