

# Yi QuanLee

## contact

leeyiquan95@gmail.com

## languages

English  
Chinese/Mandarin

## programming

Java,  
Python,  
C++, C,  
 $\LaTeX$

## Experience

- Jul '21 – **Shopee** Singapore  
*Software Engineer* Software Engineer in Data Engineering Execution Production (DEEP) team.
- Jun–Nov '20 **DSO National Laboratories** Singapore  
*Summer Intern*
- Surveyed various algorithms on topics.
  - Compiled notes on all mathematical principles behind algorithms.
  - Implemented algorithms on SageMath.
- Aug–Dec '19 **National University of Singapore** Singapore  
*Teaching Assistant*  
 Teaching assistant for MA1101R - Linear Algebra 1 and CS3244 - Machine Learning.
- Conducted tutorial classes and consultations for MA1101R.
  - Prepared course material and involved in project evaluations for CS3244.
- Jun - Aug '19 **Institute of Mathematical Sciences** Singapore  
*Project Coordinator for Research in Industrial Projects for Students*
- Trained and built machine learning models for microstock image classification using Transfer Learning.
  - Implemented and modified some models such as ILGNet (Inception-Local-Global Network) as well as ILGNet-inspired architectures.
  - Built Selenium-based data scraper to collect data.
  - Coordinated project meetings between team and academic, industrial mentors. Updated program director on weekly progress.

## Education

- 2021– **M.Sc.** in Mathematics National University of Singapore
- Part-time Masters Program
- 2016–2021 **B.Sc.** in Mathematics, **B. Comp** in Computer Science National University of Singapore
- Double Degree Program in Mathematics and Computer Science. Honours for both degree.
  - CAP for Mathematics: 4.69/5.00 (Highest Distinction).
  - CAP for Computer Science: 4.70/5.00 (Highest Distinction).
  - Special Program in Mathematics
- 2012–2013 **GCE A Levels** National Junior College
- H2 Physics, Mathematics, Chemistry and Music, H3 Mathematics.
  - Achieved distinction for H2 Physics, Mathematics, Chemistry and H3 Mathematics.

## Skills

Java, Python, C, C++,  $\LaTeX$ , SageMath, Pytorch, FastAI, R.

## Interests

Mathematics: Algebra, Algebraic Topology

Computer Science: Machine Learning, Randomised Algorithms, Parallel and Distributed Algorithms.