

Joel Lo



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<https://aerodromic.github.io/>

Summary

I am a Year 2 undergraduate currently pursuing Industrial & Systems Engineering in NUS with intent to major in Computer Science. Currently, top 5% on TryHackMe and 62 problems solved on leetcode.

I write in Python 3 and have experience working windows/linux CLI and VBA. In helping my professor, I have picked up HTML, CSS and JS. Over my free time, I have made a website hosted locally on a rpi 4b with LAMP. Currently working on Orbital (Apollo 11)

Recent projects includes building a decision making tool for village heads to find the optimal allocation of staff for their vaccination as well as building a supervised machine learning algorithm in Google Colab to classify images into numbers based on training data from the Keras library. An extension of the latter project was to reference the weights and bias generated by the model to Excel to prove that artificial neural network can be exported to Excel for fast real world deployment. I have experience working in hackathons: TISC 2021, Huawei Cloud Spark Hackathon 2022, Shopee Code League 2022, Climate Hack 2022 (ASIA), Ground Zero 2022, Grey Cat The Flag 2022. I believe that hackathons are a great way to build one's ideation, prototyping, pitch and technical skills within a short span of time. The time crunch for hackathons are adrenaline to me.

Experience



Student Assistant

National University of Singapore

Dec 2021 - Jan 2022 (2 months)

Assisted Dr Tan Chin Hon in creating E-Learning Resources for Engineering Economics. Currently working on a HDB Resale Price Prediction tool under the guidance of Prof Tan.



Third Sergeant

Singapore Armed Forces (SAF)

Jan 2019 - Nov 2020 (1 year 11 months)

3SG Joel Lo served under 3rd Battalion Singapore Guards. MPAT Commander. Armskote trained. GPMG Operator trained.

Education



National University of Singapore

B.Eng (Hons), Industrial & Systems Engineering

2021 - 2025



Mahidol University

May 2022 - Jun 2022

Temasek Foundation - NUS Leadership Enrichment and Regional Networking (TF- NUS LEaRN) Programme.

Cultural Exchange for 2 weeks in Mahidol University to learn about Thai culture and sustainability.
Accredited an honourable mention for most professional slide deck on using tech (AI & IOT) and the
SDGs to start a social enterprise to bring about sustainable energy usage in Singapore industries.



Tampines Junior College

A Levels, Science Stream

2017 - 2018

Licenses & Certifications



Programming for Everybody (Getting Started with Python) - University of Michigan

| Coursera

8EBMR9ZLTP79



Python Data Structures - University of Michigan | Coursera

U9KEEG4PNXJD



AI FOR EVERYONE (AI4E)® - AI Singapore

41715268



AI For Everyone® - Hands-On 1 - AI Singapore

41710466



AI for Everyone® - Hands-On 2 - AI Singapore

41714268



Pre Security Learning Path - TryHackMe

THM-OGDOYA8XGI



AI FOR INDUSTRY® - Literacy In AI - AI Singapore

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Skills

React.js • Python (Programming Language) • Machine Learning • Microsoft Excel • Linux •
Leadership • Visual Basic for Applications (VBA)