



# Lian Kok Hai

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## TECHNICAL SKILLS

### Design

Experienced with both traditional and digital medium; adept at Adobe Photoshop and Illustrator

### Photography

Proficient at event photography and post-processing with Adobe Lightroom

### Coding

Python 3, Tensorflow, ongoing self-learning of Javascript

## OTHER INFORMATION

Fluent in English, Chinese and conversational Hokkien

Enjoy sketching and watercolour

## HIGHER EDUCATION

### '21 – '25 | NATIONAL UNIVERSITY OF SINGAPORE

- > Presently pursuing a degree in **Computer Science** under the NUS Merit Scholarship

## WORK EXPERIENCE

### '20 – '21 | DSO NATIONAL LABORATORIES, SENSORS DIV

- > **6-Months Temporary Staff**; worked on using distributed machine learning to solve an image segmentation problem for a remote sensing project
- > Implemented frameworks like Horovod, Kubernetes in air-gapped, dockerised environments, presented a literature review on state-of-the-art distributed machine learning strategies, and developed a novel solution for contrast enhancement of images.

## NATIONAL SERVICE

### '19 – '20 | 163 SQUADRON

**Vocation:** Air Warfare Officer (Air Defence Weapon)

**Award:** Best in Knowledge for 2<sup>nd</sup> AWO (ADW) I-HAWK Course

## EDUCATION

### '17 – '18 | RAFFLES INSTITUTION (JUNIOR COLLEGE)

- > **GCE A Levels 90 RP** - Straight A's in H2 Physics, H2 Chemistry, H2 Mathematics, H2 Economics
- > **Raffles Diploma (Distinction)**

### '13 – '16 | RAFFLES INSTITUTION (SECONDARY IP)

- > **Raffles All-Round Excellence Award** in 2016
- > **SMU Youth Innovation Challenge (Junior) 1st Place Winner** in 2016; pitched an original business plan and financial roadmap to a panel of judges comprising industry leaders and investors
- > **Research Education Certificate of High Distinction** in 2015
- > **A\*STAR Science Award** (Upper Secondary) in 2015
- > **Best in Cohort for Art Elective Programme** in 2013

## CO-CURRICULAR ACTIVITIES

### '17 – '18 | RAFFLES ECOLOGICAL-LITERACY PROGRAMME

- > **Author and Illustrator** of 24-paged children's book: "*WHOOOSH! A Coral's Journey*" published in 2018

### '16 – '18 | SERVICE PROJECTS

- > **Initiated *Operation Einstein***, an ongoing project aimed to increase science exposure to youths in the heartlands in 2017 – 2018; carried out the science programme at 14 different venues for over 200 total participants
- > **Initiated *The Wild Side RI***, an ongoing project aimed to raise environmental awareness amongst school cohort in 2017 – 2018; provided wildlife service opportunities and conducted outreach to the school
- > **Participated in *Nurture CDAC* and *Empowering Gen Z***; weekly tutoring programmes for less privileged children in 2016 – 2018. Presently tutoring with *Budding Minds* since Sept 2020.

### '13 – '18 | 02 RAFFLES SCOUTS GROUP

- > **Vice Chairman** in 2017 – 2018, Executive Committee in 2015-2016; responsible for the planning and execution of large-scale camps and weekly training sessions for a troop of over 60 scouts
- > **Organised the 02 95<sup>th</sup> Anniversary Campfire** for over 500 scouts from 22 different troops in Singapore
- > **Chief Commissioner's Award** in 2017
- > **Raffles Service Award** for outstanding contributions to Raffles 02 Scouts in 2016

### '17 – '18 | RAFFLES VISUAL ARTS CLUB

### '13 – '16 | RAFFLES PHOTOGRAPHY AND ART CLUB

- > **Executive Committee** in 2015-2016; responsible for the planning and execution of club activities inclusive of art exhibitions, event photography and running of photo booths during numerous school occasions
- > **Raffles Merit Award** for outstanding contributions to Photography and Arts Club in 2016