

# MELVIN KOK

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Summer Internship Availability: May 2020 - August 2020 (14 weeks)

Credit-Bearing Internship Availability: December 2020 - May 2021 (23 weeks)

## EDUCATION

**Nanyang Technological University** May 2018 - May 2022 (Expected)

- Bachelor of Engineering (Electrical and Electronic Engineering)
- Honours (Merit) (Expected)
- Relevant Modules: (1) Introduction to Data Science and Artificial Intelligence  
(2) Data Structures and Algorithms (3) From Computational Thinking to Programming

## ACADEMIC PROJECTS

**Predicting Probability of Olympian Winning Medal** Oct 2019 – Nov 2019

*NTU-EEE Module: Introduction to Data Science and Artificial Intelligence*

- Developed Probability Prediction Model for Olympics 2020 using Python on Anaconda platform
- Deployed Imputing Technique to enhance model prediction probability (e.g. rectifying data “integrity”) upon Machine Learning Algorithm (i.e. XGBoost) application
- Successfully simulated outcome by developed model based on “historical” dataset (1910 – 2010) of Olympic Medal Winners to predict upcoming Olympics 2020

## PERSONAL PROJECTS

**Hsi-Illustration ([www.hsi-illustration.com](http://www.hsi-illustration.com))** Apr 2020 – Apr 2020

- Developed web application using Flask for users to shop for customized watercolor portraits
- Implemented storage solution for orders using PostgreSQL and AWS S3

## NATIONAL SERVICE

**Republic of Singapore Navy, *Underwater Combat Medic*** Nov 2016 – Jan 2018

- Built reputation among superiors for strong situational awareness and excellent communication skills
- Provided front-line medical service for acute appendicitis patient over 12 hours readily (e.g. measured vitals, administered medication / drips) with stable condition intact
- Worked under pressure in time-critical situation to treat patient having anaphylaxis (i.e. severe allergic reaction with difficulties breathing)

## LEADERSHIP & CO-CURRICULAR ACTIVITIES

**NTU Hall 1 Hall Council, *Financial Secretary*** Sep 2019 – Present

- Analyzed past expenditure as benchmarking / referencing to manage current finances for Hall 1 operation; allocated approved budget to respective 10 committees with solid justification
- Assume role as Main Liaison to coordinate with Student Affairs Office for reimbursement claims upon valid receipts / invoices submitted by 10 committees
- Involved actively in assets sourcing and procurement for Hall 1

**NTU Hall 1 Junior Common Room Committee, *Social Secretary*** Sep 2018 – Aug 2019

- Led 8 team members to organize Joint-Hall Halloween Event within compressed time; successfully participated by 400 residents
- Planned, organized, executed and implemented social activities for hall residents’ cohesiveness
- Managed the Hall Cheerleading Team, and initiated fund raising to support team’s training expenses

## TECHNICAL SKILLS

<b>Computer Languages</b>	Python, JavaScript, HTML, CSS, SQL, C, Arduino
<b>Frameworks &amp; Libraries</b>	Scikit-learn, Pandas, Numpy, Flask, Bootstrap
<b>Tools</b>	Git, Docker, LaTeX
<b>Programs</b>	LabVIEW, MATLAB, Microsoft Office 2019