

# KO JIA LING

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Cybersecurity graduate seeking to leverage skills and gain experience to help protect Singapore's cyberspace.

## Work Experience

### Cyber Defender Intern

**Centre for Strategic Infocomm Technologies (CSIT) | Feb 2021 - August 2021**

- Analysed artifacts to model attackers' activities.
- Developed malicious activity detection tool extension for Wireshark.
- Tested and documented threat hunting capabilities of existing tools.

### Assistant Robotics Instructor

**Tribal Studioz | December 2018 - December 2019**

- Designed and tested solutions (mechanical design & programming) for major robotics competitions.
- Planned teaching curriculum to help students (ages 12 to 14) develop computational thinking skills, and attain proficiency in using programming platforms (EV3 and RobotC).
- Implemented aforementioned teaching curriculum for a class of 20 students.
- Mentored 2 student teams for National Robotics Competition 2019.

## Education

### Diploma in Cybersecurity & Digital Forensics

**Nanyang Polytechnic | 2019 - 2022**

- GPA: 4.0
- Admitted to Director's List for 3 semesters.
- Distinction grade for 12 modules, including Database Management, Data Structures & Algorithms, Applied Cryptography, Applications Security Project and more.
- 3 Diploma-Plus modules (Machine Data Analytics & Operational Intelligence, App Development with Swift, Cloud Computing Foundation).
- Established foundational information technology (IT) knowledge, with an emphasis on the cybersecurity trade. This includes knowledge on networking, operating systems, cryptography etc.

### Singapore-Cambridge GCE O-Level

**Anderson Secondary School | 2015 - 2018**

- L1R4: 8
- L1R5: 10

## Contact

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## Technical Skills

- Digital Forensics (FTK, Encase)
- Machine Data Analysis (Splunk)
- Operating Systems (Windows, Linux)
- Programming languages (Python, JavaScript, Swift)
- Database (MySQL)
- Cloud Computing (AWS)
- Network design and configuration

## Soft Skills

- Highly organised
- Efficient time-management
- Work well under pressure
- Able to grasp new concepts quickly
- Strong work ethic

## Certifications

### Alibaba Cloud Associate

**Alibaba Group | 29 September 2020**

- Certification designed for personnel who can use Alibaba Cloud Computing products. Covers all of Alibaba Cloud's core products from computing, storage, networking to security.

### App Development with Swift Level 1

**Apple | 28 August 2020**

- Certification recognizes foundational knowledge of the Swift programming language, app developer tools, and core components of apps.

## Experience

### Cyber Defenders Discovery Camp (CDDC) 2020 Capture-The-Flag

#### 36th Team Placing, Poly/Uni Category

- Jeopardy style Capture-The-Flag competition organised by Defence Science and Technology Agency (DSTA).

### Singapore Cyber Conquest (SCC) 2019

#### 10th Team Placing

- Red/Blue team style Capture-The-Flag competition organised by Cyber Security Agency of Singapore (CSA).
- Represented Nanyang Polytechnic as a Blue team member.

### NYP Back-To-School Capture-The-Flag Competition

#### 3rd Place, 2nd Year Category

- Internal Capture-The-Flag competition organised by Nanyang Polytechnic Cybersecurity Interest Group for students in School of Information Technology.

### Ace of Coders 2019

#### Participation

- Pair-programmed game sprites to complete tasks independently in the CodeCombat multiplayer arena created by NUS Institute for the Application of Learning Sciences and Educational Technology (ALSET).

### NYP WorldSkills Internal Selection

#### Participation

- Attended weekly training sessions in preparation for WorldSkills Singapore, Cyber Security category.
- Participated in 3-day selection test.

## Notable Achievements

### National Robotics Programming Competition 2018

#### 1st, Best Robot Performance

- Robotics competition organised by Admiralty Secondary School and Nanyang Polytechnic.

### National Robotics Competition 2017

#### 1st, Best Presentation Award

- National qualifying competition for World Robot Olympiad, organised by Science Centre Singapore.

### First Lego League Singapore 2016/17

#### 1st, Best Mechanical Design Award

- National qualifying competition for First Lego League Internationals, organised by Duck Learning.

## Leadership Appointments

### Vice-President, Aikido Club

#### Nanyang Polytechnic | April 2020 - April 2021

- Support President in making decisions and delegating tasks to the executive committee.
- Planned training schedule for 40 members based on updated Covid-19 guidelines.
- Assisted in planning club activities such as training and orientation.

### External President, Robotics Club

#### Anderson Secondary School | May 2017 - May 2018

- Directed the executive committee in logistics and administrative matters.
- Planned competition teams based on members' interests and skill levels.
- Planned training sessions for the senior and junior programmers.
- Taught 20 junior members basic programming using EV3 platform.
- Worked with logistics head to allocated resources for training sessions and competitions.

## Co-Curricular Activities

### Guitar Club

#### Nanyang Polytechnic | 2020 - 2022

- Performed for events such as Guitar Club annual concert, NYP Open House, NYP Spectrum .

### Aikido Club

#### Nanyang Polytechnic | 2019 - 2022

- Attained 5th Kyu (Blue-Gold) belt.
- Led the club for warm-ups.

### Robotics Club

#### Anderson Secondary School | 2015 - 2018

- Won 8 out of 20 competitions.
- Awarded by school Outstanding Young Innovator Award (for Outstanding Achievements in a Prestigious Competition).
- School Colours Award (Gold).
- Specialised in programming.