

# RYAN KWOK



+65 9026 3693



[ryankwok@comp.nus.edu.sg](mailto:ryankwok@comp.nus.edu.sg)



[kwokyto.github.io/resume/](https://kwokyto.github.io/resume/)



I aim to further my passion in cybersecurity by continuously learning new skills that will not only serve the company but benefit the society. Above all, I wish to enjoy my work while I give my best to excel in this field.

## ACADEMIC QUALIFICATIONS

### National University of Singapore

August 2020 - July 2024

- (Hons.) Degree in Information Security ([Commendation Letter](#) | [Dean's List](#))
- University Scholars Programme ([Honour Roll](#))
- Minor in Philosophy

### Smart Nation Scholarship

2019

- Awarded the Smart Nation Scholarship that develops and nurtures technology talents and leaders within public service
- 4 year bond with Cyber Security Agency of Singapore
- [Scholarship Guide](#) | [BrightSparks](#) | [ZaoBao](#)

### Raffles Junior College

January 2016 - December 2017

- Completed A-Levels with 5 As in Mathematics, Chemistry, Physics, Chinese, and Project Work, and a B in Knowledge and Inquiry.

## TECHNICAL SKILLS

### Certifications

- CompTIA Security+
- EC Council Certified Ethical Hacker
- EC Council Computer Hacking and Forensics Investigator
- Google Cloud Associate Cloud Engineer

[Certificate](#) | [Verification](#)

[Certificate](#)

[Certificate](#)

[Certificate](#) | [Verification](#)

### Courses Taken

- Certified Blockchain Specialist
- Certified Internet of Things Specialist
- Certified Machine Learning Specialist
- Deep Learning with TensorFlow and Python
- React Native 101

[Certificate](#)

[Certificate](#)

[Certificate](#)

[Certificate](#)

[Certificate](#)

### Literacy and Experience

- Coding Literacy in Python, C, C++, and Java
- Development Experience in React Framework, Docker, Virtual Machines, and RaspberryPi

## WORK EXPERIENCE

### **Cyber Security Developer, Amaris.AI**

**May 2022 - July 2022**

- Managed and developed systems dealing with adversarial AI, deepfake generation and detection, and audio transcription and verification
- Develop new features for existing cyber security products
- Develop and integrate components for new cyber security products
- Implement production-grade software with accordance to professional coding standards and testing with appropriate methodology
- Write technical documentation

### **Intern, Strategy, Cyber Security Agency**

**May 2021 - July 2021**

- Research into international and local regulations in cybersecurity of AI, cloud, and telecommunications
- Research in future regulations of human augmentation, space technology, and quantum computing
- Provide recommendations to superiors on Singapore's regulatory direction in each cybersecurity field

### **Teaching Assistant, National University of Singapore**

**January 2021 - Present**

- CS1010X Programming Methodology (Python)
- CS2113 Software Engineering & Object-Oriented Programming
- IS1108 Digital Ethics and Data Privacy

### **Intern, Cyber Security Programme Centre, Cyber Security Agency**

**February 2020 - July 2020**

- Conducted penetration tests and vulnerability assessments
- Automated onboarding process using Python
- Researched on cloud security and security in artificial intelligence

### **National Race Officer, Singapore Sailing Federation**

**April 2019 - Present**

- Conducted races for huge fleets with more than 100 participants
- Managed the safety of fleets of sailors during competitions

### **Diver, Naval Diving Group**

**February 2018 - December 2019**

- Served National Service in the Clearance Diving Group
- Specialised in clearance of underwater explosives

### **Sailing Coach, Singapore Sailing Federation**

**April 2016 - February 2018**

- Coached OptiJunior, OptiSailor, and OptiRacer courses
- Ensured sailors' safety while sparking their interest and passion for the sport

## PERSONAL PROJECTS

### Chilling Sessions

[NUS Residential Life Article](#)

- Ground-up initiative focused to remind USP students to relax and focus on mental health
- Brought together 5 collaborations with student-led groups to conduct activities to improve mental health
- Awarded special \$1000 welfare fund by NUS Office of Student Affairs and featured in their article

### A Safe Space

[FAQ](#) | [Telegram Bot](#)

- Telegram bot that simulates an anonymous group chat
- Created as a platform for USP students to hold conversations on mental health issues

### USP Queue Bot

[Documentation](#) | [Telegram Bot](#)

- A queue system on Telegram
- Allows users to join the queue and gives admins the ease of managing late and missing users
- Automatically sends notifications to users nearing the end of the queue

### Build On, Singapore 2020 Hackathon

[Certificate](#) | [Product Pitch](#)

- Semi-finalist in this hackathon implementing AWS solutions
- Developed "Reliability Bot" Telegram bot that determines how reliable a piece of text is, and returns a recommendation with an educational factor
- Responsible for implementing AWS Comprehend for language processing

## SAILING AWARDS

### Optimist Sailing National Team

2010 – 2014

- Represented Singapore in various international competitions
- Trained at a high level of discipline and excellence

### Sailing Sportsboy / Sportsgirl Meritorious Awards

- IODA Optimist Asians Championship 2014
- IODA Optimist North American Championship 2014
- IODA Optimist Worlds Championship 2014

Individual: 7<sup>th</sup> | Team: 2<sup>nd</sup>

Individual: 4<sup>th</sup> | Team: 1<sup>st</sup>

Individual: 2<sup>nd</sup> | Team: 2<sup>nd</sup>

## COMMUNITY SERVICE

### Experience Sailing Programme

2016

- Self-initiated programme
- Co-organised in partnership with Singapore Sailing Federation
- Held the role of Admin I/C
- Aimed to give less fortunate students a unique, fun, and meaningful experience by exposing students to sailing and spark their interest in sports