

# RYAN KWOK

## ACADEMIC QUALIFICATIONS

### National University of Singapore (Aug 20 – Jul 24)

- (Hons.) Degree in Information Security
- University Scholars Programme
- Minor in Philosophy

### Smart Nation Scholarship (2019)

- 4 year bond with Cyber Security Agency of Singapore (CSA)

## TECHNICAL SKILLS

- CompTIA Security+
- EC Council Certified Ethical Hacker
- EC Council Computer Hacking and Forensics Investigator
- Google Cloud Associate Cloud Engineer
- Coding Literacy in Python, C, C++, and Java
- Experience in React Framework, Docker, Virtual Machines, RaspberryPi

## COURSES TAKEN

- Certified Blockchain Specialist
- Certified IoT Specialist
- Certified Machine Learning Specialist
- Deep Learning with TensorFlow and Python

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

## WORK EXPERIENCE

### Cyber Security Developer, Amaris.AI

May 22 – Aug 22

- Involved in project dealing with adversarial AI, deepfake generation and detection, and audio transcription and verification
- Develop and integrate new features and components for existing and new cyber security products
- Implement production-grade software with accordance to professional coding standards and testing with appropriate methodology

### Intern, Strategy, CSA

May 21 – Jul 21

- 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

Jan 21 - Present

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

### Intern, Cyber Security Programme Centre, CSA

Feb 20 – Jul 20

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

## PERSONAL PROJECTS

### Chilling Sessions

[NUS Residential Life Article](#)

- Ground-up initiative that brought together 5 collaborations with student-led ground, focusing on reminding USP students to relax and take care of their 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