

# Ying Yee Wong (Rae)

Computer Science student at Carnegie Mellon

Passionate about exploring the different fields of CS including machine learning, cyber security and web applications, I believe in creating smart solutions to solve real world problems.

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#### **EDUCATION**

# **B.S. in Computer Science** Carnegie Mellon University

08/2020 - Present Pittsburgh, PA, USA

# Singapore-Cambridge GCE A-Levels

Hwa Chong Institution

01/2018 - 12/2019

Courses and Activities - Gifted and Talented Education Program (Physics)

- Co-Chairperson of the 11th International Science Youth Forum (hosted nobel laureates and field medalists)

- H2 Computing (top in cohort), Mathematics, Physics, Economics, H3 Mathematics
- President of Research Council (~200 members)

#### **WORK EXPERIENCE**

# Web Development Intern

Insignia Ventures Partners

08/2020 - Present Singapore

An early stage technology venture fund dedicated to growing the most influential companies in Southeast Asia Achievements/Tasks

- Developed a venture capital simulator to calculate shares ownership based on funding raised
- Incorporating it to Insignia's website to enhance workflow

#### **Mobile Security Intern**

Centre for Strategic Infocomm Technologies (CSIT)

Leading agency that conducts applied research and builds products to meet national security needs

Achievements/Tasks

03/2020 - 05/2020

- Reverse engineered banking apps using tools such as Frida and Ghidra

Researched on low level computation and crafted thumb assembly code to perform injected native functions

# Internet of Things Security Intern

Government Technology Agency (Advanced Cyber Attack Simulation)

01/2020 - 03/2020

A statutory board under the Prime Minister's Officethat uses technology to improve the lives of everyday Singaporeans

Achievements/Tasks

 Researched on Bluetooth Low Energy for the development and pen testing of TraceTogether, a contact tracing app rolled out in the nation, downloaded by over 1 million users

- Performed pen testing on various Bluetooth personal devices and drafted a checklist for future standardization

### Research Attachment

A\*STAR - Agency for Science, Technology and Research

01/2016 - 01/2019 Achievements/Tasks Sinaapore

- Applied semi-supervised machine learning and developed an Intrusion Detection System for Singapore's critical transport infrastructure
- Developed a GUI for configuration of Linux iptables firewall, taking into account proprietary needs of the Modbus protocol

Singapore

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Singapore

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#### **VOLUNTEER EXPERIENCE**

# Volunteer Web Developer Advisory Singapore

08/2020 - Present

Tasks/Achievements

- Developing a new website using React to replace the current WordPress page

## Teaching Assistant

Code in the Community

01/2019 - 04/2019

Tasks/Achievements

- Taught scratch and python to less privileged children, each over a course of 10 sessions

#### **ACHIEVEMENTS**

Hwa Chong All-Round Excellence Award

Recognises 10-15 top students of the graduating cohort

Championship and Best Defender, Cyber Defenders Discovery Camp (2019)

National capture the flag competition

Joint First in Nationals. International Mathematical

Modelling Challenge (IMMC 2018)

Bronze Award, Singapore Science and Engineering Fair (2018 & 2019)

National competition for student researchers

# **TECHNICAL SKILLS**

Web html, css, js, react, nodejs, MERN stack Languages python, c++, js

Security linux OS, frida, ghidra, kali tools ML MatLab, LaTeX