



Ying Yee Wong (Rae)

Computer Science student at Carnegie Mellon

Passionate about the various fields of Computer Science, including machine learning, cyber security and web application, I believe in creating smart solutions to solve real world problems.



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ACHIEVEMENTS

Hwa Chong All-Round Excellence Award

Recognises 10-15 top students of the graduating cohort

Subject Prize Award [Computing] 2019

Top in 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 research

VOLUNTEER EXPERIENCE

Web Developer Advisory Singapore

Teaching Assistant Code in the Community

Taught Python and Scratch

Course Creator Cloudsine Pte Ltd

Initiated a 4-day youth cyber security bootcamp

LANGUAGES

English, Chinese

Native or Bilingual Proficiency

Malay

Professional Working Proficiency

EDUCATION

B.S. in Computer Science Carnegie Mellon University

08/2020 - Present

Pittsburgh, PA, USA

Singapore-Cambridge GCE A-Levels [7 Distinctions] Hwa Chong Institution

01/2018 - 12/2019

Singapore

Courses and Activities

- Gifted and Talented Education Program (Physics)
- Co-Chairperson of the 11th International Science Youth Forum (hosted nobel laureates and field medalists)
- 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 influential companies in Southeast Asia

Achievements/Tasks

- Developed a venture capital simulator to calculate shares ownership based on funding raised using html, css, js
- Optimised database usage to enhance workflow between departments and management

Mobile Security Intern Centre for Strategic Infocomm Technologies (CSIT)

03/2020 - 05/2020

Singapore

A national security agency that conducts applied research

Achievements/Tasks

- 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 Intern Government Technology Agency (Advanced Cyber Attack Simulation)

01/2020 - 03/2020

Singapore

A statutory board under the Prime Minister's Office that uses technology for social good

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
- Simulated a Cross-Site Scripting attack on a self-built IoT system to test web vulnerabilities

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

01/2016 - 01/2019

Singapore

Achievements/Tasks

- Applied semi-supervised machine learning using libraries such as scikit-learn to develop 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 using PyQt