

# Syue Siang Su

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“Code is meant to be born to be pretty.”

## Education

### National Chiao Tung University

MASTER OF COMPUTER SCIENCE

- Master's thesis: Exploiting SQL Injection with Semantic Polymorphism

*Hsinchu, Taiwan*

*Jul. 2016 – Jul. 2018*

### National Sun Yat-sen University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- GPA: 3.81/4.3
- Honors: Early graduation base on academic excellence. Dean's honor List
- Teamwork: Collaborated with another teammate in researching web fuzzers' efficiency and effectiveness

*Kaohsiung, Taiwan*

*Sep. 2012 – Jan. 2016*

## Work & Leader Experience

### CyCraft Technology Corp

CYBER SECURITY RESEARCHER

- Do security research and publish new findings in conferences
- Track down campaigns and hackers behind through deep investigation and analyses
- Replicate new evasion techniques and propose corresponding detection rules to our R&D team to enhance our products and services

*New Taipei, Taiwan*

*Apr. 2020 – Present*

### Taiwan Semiconductor Manufacturing Company

INFORMATION TECHNOLOGY SECURITY, ENGINEER

- Handle events and taking actions in the Cyber Incident Response Center
- Study advisories and design protection / detection rules on relevant products
- Conduct and Review security items after the evaluation of Read Team

*Hsinchu, Taiwan*

*Jan. 2019 – Mar. 2020*

### Taiwan Information Security Center

PROJECT ASSISTANT

- Conduct penetration testing on corporations
- Study and develop penetrating tools

*Hsinchu, Taiwan*

*Sep. 2018 – Dec. 2018*

### The Declaration of Hacker

BACK-END WEB DEVELOPER, IT

- Develop a wargame platform and introduce Docker as a primary DevOps solution
- Construct a wargame platform built on top of Rails framework, and utilizing Docker to provide players environments with fast-starting and isolated features
- With Rancher's multi-tenant Container-as-a-service solution, Docker-War can really easy to set up, and bringing itself more accessible through Docker API

*Taipei, Taiwan*

*Jul. 2015 – Aug. 2018*

### Infosec study group

ORGANIZER

- Organize interested individuals to share their workings and studies
- Recruit over 20 members to club with hosting a small CTF contest
- Organize contests, speaker events and community events
- Collaborated with Professors to provide them resources

*Kaohsiung, Taiwan*

*Jul. 2015 – Jun. 2016*

## Extracurricular Activity

## HITCON Training 2016 - 2020

Taipei, Taiwan

LECTURER OF "MAKING YOURSELF A TOOLMAN" & "ADVANCED WEB SECURITY & HANDS-ON WEB PENTEST"

Jul. & Dec. 2016 - 2020

- Lecture attendees on internals of famous security tools and advanced concepts of web security
- Teach attendees to write their security tools such as web vulnerability scanner
- Give attendees some hands-on practices regarding the OWASP TOP 10 2017 and guide them step-by-step
- Give attendees more hands-on practices regarding recent novel attacks and techniques

## National Center for Cyber Security Technology

Taipei, Taiwan

LECTURER OF "WEB SECURITY FOUR-DAY WORKSHOP"

Sep. 22nd 2017 - Sep. 25th 2017

- Lecture attendees on concepts and advanced skills of web security
- Give attendees hands-on practices during the workshop and hold a four-hour competition on the last day
- The practices were generated by my small project called VWGen (Vulnerable Web Application Generator)

## Bamboofox

Hsinchu, Taiwan

MEMBER

June. 2016 - Present

- Gained expertise in hacking & security areas, especially about web security & internal of operating system based on UNIX and several exploit techniques, such as bof, heap overflow, and etc
- Participated on several CTF competitions such as Trend CTF, HITCON CTF, and etc
- Periodically give new members a lecture

# Honors & Awards

## INTERNATIONAL

2017 **Finalist**, SECCON CTF 2016 Final

Tokyo, Japan

2016 **Finalist & HITCON Taiwan Star Award**, HITCON CTF 2016 Final

Taipei, Taiwan

## DOMESTIC

2019 **First place**, HITCON Defense

Taipei, Taiwan

2016 **Finalist & Third place**, Taiwan IT Security Golden shield Competition Final

Taipei, Taiwan

2015 **Finalist**, Taiwan IT Security Golden shield Competition Final

Taipei, Taiwan

2014 **4th Place**, F-Secure Taiwan IT Security Competition

Taipei, Taiwan

# Presentation

## H@ctivitycon, HITCON 2020, ROOTCON 14

USA, Taiwan, Philippines

PRESENTER FOR <DISCOVER VULNERABILITIES WITH CODEQL>

2020

- Introduce CodeQL and its practical functionality along with some case-studies and 1-days that were successfully found against common CMS by leveraging CodeQL's powerful static/taint analysis
- Finding vulnerabilities in a large codebase with the help of CodeQL

## AVTokyo 2018, OWASP Global AppSec - DC 2019, ROOTCON 13

Japan, USA, Philippines

PRESENTER FOR <FAREWELL, WAF - EXPLOITING SQL INJECTION FROM MUTATION TO POLYMORPHISM>

2018, 2019

- Introduce a promising direction of automatically generating SQL Injection attacks with Polymorphism
- Present some case studies and bypasses for the ModSecurity latest version (v3.1) alongside our demonstrations and explain why common detection cannot help in this place as well

## OSCON 2018

Portland, Or, USA

PRESENTER OF <BEST PRACTICES FOR CROSS-PLATFORM DESKTOP APPS WITH VUE.JS AND ELECTRON>

Jul. 18th 2018

- Building cross-platform desktop applications with Vue.js is fairly straightforward, since Vue.js plays really well with Electron. Learn how, as Syue Siang Su walks you through making a minimal browser-like application, from ideation to deployment.

## AVTokyo 2017

Tokyo, Japan

PRESENTER OF <THE AMAZING TOOLMAN - MASTERING THE TOOLS AND PROPOSE A HACKABLE "SWISS ARMY KNIFE">

Nov. 11th 2017

SECURITY FRAMEWORK FOR THE 21ST CENTURY>

- Introduce some handy and useful tools and give audiences some best practices about them
- Propose a hackable "Swiss Army Knife" security framework, which can be used in conjunction with existing tools like Burp, Docker, etc, and also a plenty of web extensions you often used on Chrome and Firefox

## Modern Web 2017

*Taipei, Taiwan*

PRESENTER OF <VUE.JS + ELECTRON, BUILD YOURSELF A BROWSER!>

*Aug. 10th - 11th 2017*

- Introduce what Vue.js and Electron are in the first half talk, and then give attendees a concrete demonstration about how to use Vue.js and Electron to build a browser from scratch