

# 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

SENIOR SECURITY RESEARCHER

- Study new attack techniques, understand their root causes and reproduce them in our lab
- Track down campaigns and hackers behind through deep investigation and analyses
- Collect and reverse malware samples to find artifacts or suspicious actions that can be detected in an environment

*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

### CCoE Taipei 2022

LECTURER OF "ADVANCED WEB SECURITY & HANDS-ON WEB PENTEST"

- Give attendees some hands-on practices regarding the OWASP TOP 10 2021 and guide them step-by-step
- Give attendees more hands-on practices regarding recent novel attacks and techniques

*Taipei, Taiwan*

*Jul. 9th 2022 - Jul. 10th 2022*

## 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

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## 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

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## OWASP 2023 Global AppSec Dublin

Ireland

PRESENTER FOR <CONSTRUCTING A PRECISE DYNAMIC CONTROL-FLOW GRAPH FOR EVM BASED SMART

Feb. 16th 2023

CONTRACTS>

- Give basics of Blockchain's security pertaining to both front-end and back-end parts, such as DApps and smart contracts
- Demonstrate how we can leverage the full-functional, working EVM implementation to construct a precise CFG, and use it to do reverse engineering upon EVM-based smart contracts step by step

## VXCON 2022

Virtual

PRESENTER FOR <AD ATTACK PATHS DEMYSTIFICATION>

Aug. 27th 2022

- Share what we've learned from cases we involved and handled from small business to large company pertaining to AD mis-configurations and operations
- Discuss what could a blue team do to approach the security posture managers want with audience, and share what and how we do as an AI-focused security company

## NCA Annual Conference 2021

Japan

PRESENTER FOR <THE BALANCE BETWEEN ACTIVE DIRECTORY OPERATION & SECURITY IN ENTERPRISES>

Dec. 18th 2021

- Talk about AD operation mistakes that are prevalent in enterprises, and how cybercriminals take advantage of these weak points to infiltrate different zones of corporates and debunk some myths regarding AD

## CYBERSEC 2021

Taipei, Taiwan

PRESENTER FOR <LET ME GOOGLE IT FOR YOU - SECURITY CONCERNS IN DECENTRALIZED FINANCE (DeFi)>

May. 6th 2021

- Talk about the basics of blockchain security, known threats you need to avoid, and the emerging threats we all need to look out for
- Introduce tools and websites that audiences can use to do some simple audits

## **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