

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

Hsinchu, Taiwan

Jul. 2016 – Jul. 2018

National Sun Yat-sen University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Kaohsiung, Taiwan

Sep. 2012 – Jan. 2016

- 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

Work & Leader Experience

The Declaration of Hacker

BACKEND WEB DEVELOPER, IT

Taipei, Taiwan

Jul. 2015 – Present

- Study and learning new attacking vectors and try to reproduce some CVEs
- Develop a wargame platform and introduce Docker as a primary DevOps solution
- Constructing 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

Infosec study group

ORGANIZER

Kaohsiung, Taiwan

Jul. 2015 – Present

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

National Sun Yat-sen University

FREELANCE PENETRATION TESTER

Kaohsiung, Taiwan

Dec. 2013 - Jan. 2015

- Conducted penetration testing on web pages of university.
- Collected and reported to the staffs

Extracurricular Activity

HITCON Winter Training 2017

LECTURER OF ADVANCED WEB SECURITY & HANDS-ON WEB PENTEST

Taipei, Taiwan

Dec. 5th 2017 - Dec. 6th 2017

- Lecture advanced concepts of web security
- Give attendees some hands-on practices regarding the OWASP TOP 10 2013 and guide them step-by-step
- Give attendees more hands-on practices regarding recent novel attacks and techniques

HITCON Winter Training 2017

LECTURER OF BROWSER FRONT-END EXPLOITATION

Taipei, Taiwan

Dec. 4th 2017

- Lecture concepts of browser & web security
- Give attendees some hands-on practices and guide them step-by-step
- Inspect some implementation parts of a browser and play with it

National Center for Cyber Security Technology

Taipei, Taiwan

LECTURER OF WEB SECURITY FOUR-DAY WORKSHOP

Sep. 22th 2017 - Sep. 25th 2017

- Lecture 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)

HITCON Training 2016

Taipei, Taiwan

LECTURER OF WEB SECURITY BASIC & ADVANCED

Nov. 28th 2016 - Nov. 30th 2016

- Lecture concepts of web security
- Give attendees some hands-on practices and guide them step-by-step
- 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

NTU Hackathon

Taipei, Taiwan

PARTICIPANT

Aug. 2015

- Built an advanced Google Maps application that shows users not only the routes they specified, but also a series of images along the routes with some modifications of Hyperlapse.js

Honors & Awards

INTERNATIONAL

2017 **Finalist**, SECCON CTF 2016 Final

Tokyo, Japan

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

Taipei, Taiwan

DOMESTIC

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

AVTokyo 2018

Tokyo, Japan

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

Nov. 3rd 2018

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

OSCON 2018

Portland, Or, USA

PRESENTER FOR <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 FOR <THE AMAZING TOOLMAN - MASTERING THE TOOLS AND PROPOSE A HACKABLE "SWISS ARMY

KNIFE" SECURITY FRAMEWORK FOR THE 21ST CENTURY>

Nov. 11th 2017

- 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 FOR <VUE.JS + ELECTRON, BUILD YOURSELF A BROWSER!>

Aug. 10th 2017 - Aug. 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

SITCON 2016

Taipei, Taiwan

PRESENTER FOR <DOCKER-WAR : DOCKER BASED WARGAME PLATFORM>

Feb. 27th 2016

- Introduced a CTF platform build on top of containers, which can give each player an isolated gaming environment

Writing

Web Security Basic

HITCON Training

WRITER

Nov. 2016

- Sum up the vulnerabilities happened to Web Applications in old days

Web Security Advanced

HITCON Training

WRITER

Dec. 2016

- Sum up the vulnerabilities happened to Web Applications in recent years, and propose some new ideas to prevent such attacks as well

Rails security

Wooyun drops

WRITER

Mar. 2016

- Sum up the vulnerabilities happened to Rails in recent years

National Sun Yat-sen University

Kaohsiung, Taiwan

UNDERGRADUATE STUDENT REPORTER

Sep. 2014 - Nov. 2015

- Drafted reports about how to accelerate the speed of fuzzer with even more higher accuracy and lower false positives