

# Hsuan-Ming Chen

IT SECURITY RESEARCHER · DATA ANALYST · CLOUD ENGINEER

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## Education

### Master of Science in Informatics

Linz, Austria

JOHANNES KEPLER UNIVERSITÄT LINZ (JKU)

Sep. 2017 - Apr. 2019

- Migrating Mathematical Programs to Web Interface Frameworks
- Keywords: Remote Application Platform, Java, Web, Migration

### Master of Business Administration in Information Management

Kaohsiung, Taiwan

NATIONAL SUN YAT-SEN UNIVERSITY (NSYSU)

Sep. 2015 - Jun. 2019

- Big Data Intrusion Detection Using Cluster Computing
- Keywords: Big Data, Virtualization, Cluster Computing, Intrusion Detection System, Cyber Security

### Bachelor of Business Administration in Information Management

Nantou, Taiwan

NATIONAL CHI NAN UNIVERSITY (NCNU)

Sep. 2011 - Jun. 2015

- On the Design and Implementation Reaction Mechanisms of an Intrusion Detection and Prevention System in Linux Kernel-level
- Keywords: Virtual Machine, Virtual Machine Monitor, Intrusion Detection and Prevention System, Linux Kernel

## Skills

**Programming** Python, Java, R, Linux Shell Script

**Analytics & Research** Docker, Hadoop, Spark, Kafka, Elasticsearch, MongoDB, Django

**Languages** Mandarin (Native), Taiwanese (Native), English (Professional Working), German (Basic), Japanese (Basic)

## Research & Professional Experience

### Product Developer

New Taipei City, Taiwan

SECURITY INCIDENT RESPONSE TEAM | SYNOLOGY INC.

Oct. 2019 - Current

- Designed, deployed and maintained an Incident Response System based on Python and Django to help secure company's products.
- Traced 150,000+ CVE data records to help investigate affected scopes of company's products.
- Read 100+ security related news and written 10+ analysis reports per weeks to improve products security and policy.

### Graduate Researcher in Intelligence Defensive System Laboratory

Kaohsiung, Taiwan

DEPARTMENT OF INFORMATION MANAGEMENT | NSYSU

Sep. 2015 - Jul. 2017

- Evaluated security incident logs from Checkpoint and ArcSight about Advanced Persistent Threats (APT).
- Migrated Hadoop and Spark cluster from Xen to Docker environment and promoted an over 50% performance increase.
- Systemized a high throughput pipeline with Fluentd, Kafka, Spark, MongoDB clusters on Docker to analyze 1TB real-time log data.
- Created an automatic deployment of Hadoop and Spark standalone cluster script on DockerHub and brought out 300+ downloads.
- Lectured the deployment and usages of Hadoop, Spark and Docker for over 40 graduate students in a financial trading program.

### Trainee of Advanced Information Security Summer School (AIS3)

Kaohsiung, Taiwan

TAIWAN MINISTRY OF EDUCATION

Aug. 2016 - Aug. 2016

- Enhanced practical skills through the actual combats and the sharing of related experience in the information security field.

### Teaching Assistant of Network Security / Cloud Computing / Operating System

Kaohsiung, Taiwan

DEPARTMENT OF INFORMATION MANAGEMENT | NSYSU

Sep. 2015 - Jan. 2017

- Deployed and maintained a CTF platform by using Docker and organized a CTF competition for 30+ graduate students.
- Designed, built and collected over 20 CTF challenges in Web, MISC, Cryptography and Steganography categories for the CTF platform.
- Graded assignments and conducted consultations for 30+ graduate students about final project presentations for Cloud Computing.
- Graded exams and conducted consultations for 50+ undergraduate students about final project presentations for Operating System.
- Designed and presented 16 personal seminars and 2 exam preparation sessions on special topics for Operating System.

## Honors & Awards

May 2017 **The Honor Mention Award**, Taiwan Information Security Center (TWISC) TCAT CTF Competition

Taiwan

Dec. 2016 **The Premium Award**, Taiwan Information Security Center (TWISC) Big Data Competition

Taiwan

Aug. 2016 **2nd/75**, Advanced Information Security Summer School (AIS3) Competition Final

Taiwan