

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

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

Research & Professional Experience

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.

Teaching Assistant of Cloud Computing

Kaohsiung, Taiwan

DEPARTMENT OF INFORMATION MANAGEMENT | NSYSU

Sep. 2016 - Jan. 2017

- Graded assignments and conducted consultations for over 30 graduate students about their final project presentations.

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

Kaohsiung, Taiwan

DEPARTMENT OF INFORMATION MANAGEMENT | NSYSU

Feb. 2016 - Jun. 2016

- Deployed and maintained a CTF platform by using Docker and organized a CTF competition for over 30 graduate students.
- Designed, built and collected over 20 CTF challenges in Web, MISC, Cryptography and Steganography.

Teaching Assistant of Operating System

Kaohsiung, Taiwan

DEPARTMENT OF INFORMATION MANAGEMENT | NSYSU

Sep. 2015 - Jan. 2016

- Graded exam questions and conducted consultations for over 50 undergraduate students about their final project presentations.
- Designed and presented 16 personal seminars and 2 exam preparation sessions on special topics.

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