

Jihae Ahn

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EDUCATION

Master of Science | Cybersecurity, School of Cybersecurity and Privacy 08/2022 -
Georgia Institute of Technology, Atlanta, GA

- Cumulative GPA : 4.0/4.0 (by 2023 Spring)
- Researching at Systems Software & Security Lab (SSLab)
- Full-year Government Scholarship

Bachelor of Engineering | Department of Cyber Defense 02/2018

Bachelor of Engineering | IT Convergence Security 02/2018
Korea University, Seoul, South Korea

- Cumulative GPA : 4.18/4.5 (3.87/4.0)
- Full-year College Scholarship
- Magna Cum Laude

JOB INTEREST

Network Security, Reverse Engineering, Web Development, Penetration Testing, Artificial Intelligence, Blockchain, Smart Contracts

WORK EXPERIENCE

Cyber Operations Command (COC) THREAT ANALYSIS INSTRUCTOR 07/2020 - 08/2022

- Established an evaluation model for cyber exercises in the National Cyber Warfare Center.
- Managed daily maintenance of the server room and 5 training rooms at Cyber Warfare Center to ensure optimal performance and availability of equipment for training and testing purposes.
- Contributed to the development of attack and defense scenarios by testing common vulnerabilities (e.g., EternalBlue, Heartbleed, OWASP) in virtualized environments.
- Developed a collaborative debugger to share each user's debugging process.
- Participated in the Task Force (T.F.) to improve C4I system by harnessing data analytics skills.

Agency for Defense Development (ADD) TARGET ANALYSIS OFFICER 07/2018-06/2020

- Implemented a Cyber Training System to simulate cyberwar and evaluate trainees.
- Developed Threat Intelligence (TI) to analyze malware based on API dependency graphs by using machine learning (ML) models.
- Operated and configured cyber analytical software, including SIEM, EDR, and IDS/IPS, to detect and prevent cyber attacks.

PAPERS

A Time Limit Setting Method in Cyberwar Trainer

KOREA SOCIETY FOR INTERNET INFORMATION

South Korea | 04/2020

J. Ahn, C. Lee, D. Kim, and M. Ahn (2020)

- Suggested the instrument to automatically set time limits of missions in a simulated cyberwar system.

An Automatic Configuration Method of Training Events in Cyberwar Trainer

KOREA INSTITUTE OF MILITARY SCIENCE AND TECHNOLOGY

South Korea | 11/2019

J. Ahn, C. Lee, D. Kim, and M. Ahn (2019)

- Suggested the relative score to automatically decide the level of missions in a simulated cyberwar system.

Scoring Method for Cyberwar Trainee Evaluation

KOREA INSTITUTE OF MILITARY SCIENCE AND TECHNOLOGY

South Korea | 06/2019

J. Ahn, C. Lee, D. Kim, Y. Kim, and M. Ahn (2019)

- Suggested both an automatic and manual scoring method to evaluate cyber exercises.

PATENTS

An Automated Allotment of Training Events

J. Ahn, C. Lee, D. Kim, D. Lee, and M. Ahn (2021) at ADD

KR Patent No. 10-2242423

- Described how to allot scores of missions by using relative scores, levels, and weighted values in a simulated cyberwar system.

AWARDS & HONORS

Award for Excellent Performance in Developing the Capacity of Instructors

02/2022

awarded by a Commander of COC (a brigadier general)

Meritorious Commendation for an Exemplary Officer for Teaching Donation

12/2019

awarded by a President of ADD (a major general)

Award for Excellent Performance in a Military Training

05/2018

awarded by a Principal of Army Cadet Military School (a brigadier general)

SKILLS

- **Language** : Korean (Native), English (Professional proficiency)
- **Programming Language** : C, Python, Mysql, Shell script, Solidity, HTML/CSS, Javascript
- **Computer Skills** : Metasploit, Virtualization(Type I & II), Developer Tools(Chrome), Reverse Engineering(GDB, IDA), Network Analysis(Wireshark, Burpsuite), etc.

CERTIFICATES

- Engineer Information Security, Engineer Information Processing *by Korea Ministry of Science*
- Umbrella Studio 2.5 Certificate *by Cisco*
- Elasticsearch Engineer, Detection of Network Threats using Big Data, Algorithm Specialization *by Samsung*