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## I. SUMMARY of CORE COMPETENCIES

Dr. Kyounggon Kim has very strong experiences both cybersecurity industry and academia for 20 years. He is currently an assistant professor, Department of Forensic Sciences, Naif Arab University for Security Sciences (NAUSS). He is a founding member of Center of Excellence in Cybercrime and Digital Forensics (CoECDF) and head of network forensics department. He is teaching a 'network forensics' and 'cybersecurity and cybercrime' to higher diploma and master students at NAUSS. Before he joined the NAUSS, He lectured offensive cyber capabilities to graduate student and undergraduate student at Korea University from Sep 2016 to Aug 2020. He received the Excellent Teaching Award in Korea University (2018, 2019, and 2020). He is a representative security consulting mentor at the Best of the Best (BoB) program sponsored by the Korea government. He is invited from United Nations Office Drugs and Crime (UNODC) as a lecturer for Western/Asia professors to promote the Education for Justice (E4J) initiative. He is a member of UNODC Education for Justice initiative network. He is reviewer for the Elsevier Computers and Security, IEEE Communications and Survey, IEEE Access, and ETRI journal. He has conducted penetration testing over 130 clients for various industries such as financial, energy, and consumers when he worked for Deloitte, PwC and boutique consulting firms during over 15 years. He got a prize 6th place in DefCon CTF 2007 and got a first prize at 1st Hacking Defense Contest hosted by Korea Information Security Agency. He has an extraordinary ability to lead students' enthusiasm to the best and achieve the best.

## II. SUMMARY of PROFESSIONAL CAREER

### **Assistant Professor,**

Naif Arab University for Security Sciences,  
Head of Network Cybercrime Investigation Department  
Founding member of Center of Excellence in Cybercrime and Digital Forensics (CoECDF) *Sep. 2020 - Present*  
**Higher Diploma Program Evaluation Rank #1 (2020)**

### **Professor, Industry-University Cooperation,**

School of Cybersecurity, Korea University, South Korea *Sep. 2016 – Aug. 2020*  
**Excellent Teaching Award (2017, 2018, 2019)**  
Korea University: QS World University Rank #69

### **Founding Member,**

Global Cybersecurity Camp (GCC)  
Asia Cybersecurity Expert Cooperation Network. *Aug. 2018 - Present*  
2018: South Korea, Japan, Taiwan, and Singapore  
From 2019: 4 Founding Countries + Australia, Malaysia, Thailand, and Vietnam

### **Representative Mentor,**

Cybersecurity Consulting Track, *Jul. 2014 – Present*  
Best of the Best (BoB) Program, Seoul, South Korea

### **Member and Former Chairman**

Under Ground Hacker Group, Null@Root *May. 2001 – Present*

### **Senior Manager**

Cyber Risk Service, Deloitte, Seoul, South Korea *Dec. 2011 – Aug. 2017*  
**Excellent Evaluation (FY2013)**

### **Manager**

Risk Advisory Service, PwC, Seoul, South Korea  
Oversea Project Member, PwC, Indonesia, Singapore  
**Excellent Evaluation (FY2011)**

*Jan. 2008 – Dec. 2011*  
*Jun. 2009 – Oct 2009*

### **Senior Consultant, Pen-Tester**

Cybersecurity Research Center, SK Infosec

*Feb. 2006 – Dec. 2007*

### **Consultant, Pen-Tester**

CR@K Team, A3 Security Consulting

*Aug. 2003 – Feb. 2006*

## **III. AWARDS and CERTIFICATIONS**

1. **Student Excellence Award**, Naif Arab University for Security Sciences, Graduation project supervisor. *May. 2023*
2. **Course Recognition Award of Cybercrime Investigator training program**, INTERPOL *Jun. 2022*
3. **Course Recognition Award of Cybersecurity Incident Responder training program**, INTERPOL *Jun. 2022*
4. **Award of Distinguished Scientific Publication**, Naif Arab University for Security Sciences *Mar. 2022*
5. **Korea Internet & Security Agency President Award**, 2021 AI + Security Ideas Contest *Dec. 2021*
6. **Silver Award**, Annual Conference KIPS 2021 (ACK2021) *Nov. 2021*
7. **Special Prize**, 2021 Cyber Security Conference at HONAM
8. **Nominated as a faculty member to UNODC Cybercrime Expert Group**, NAUSS *Mar. 2021*
9. **Certification of Appreciation**, INTERPOL *Dec. 2020*
10. **The Excellent Teaching Award**, Korea University *May. 2020*
11. **Excellent Student Paper Award**, KSC2019 *Dec. 2019*
12. **Certify that Participated in the E4J Expert Workshop**, UNODC *Sep. 2019*
13. **The Excellent Teaching Award**, Korea University *May. 2019*
14. **Certificate of Contribution**, Global Cybersecurity Camp *Jan. 2019*
15. **Excellent Student Paper Award**, CISC-W 2018 *Dec. 2018*
16. **The Excellent Teaching Award**, Korea University  
*\* The Excellent Teaching Award is given to professors/instructors whose course evaluation result is top 5%. May. 2018*
17. **Certification of Appreciation Award**, Ministry of Education (Taiwan) *Sep. 2017*
18. **Certification of Appreciation Award**, Ministry of Education (Taiwan) *Aug. 2016*
19. **Finalist to DEFCON 15 CTF**, Song of the Freedom team *Aug. 2007*
20. **1<sup>st</sup> Place of the Hacking Defense Contest**, Korea Government *Nov. 2004*

## IV. EDUCATION

<b>Ph.D.</b>	School of Cybersecurity, Korea University Dissertation: Offensive Cybersecurity model for secure smart mobility and smart homes: focused on Z-Wave protocol Advisor: Professor Huy Kang Kim	<i>Aug. 2020</i>
<b>M.Sc.</b>	School of Cybersecurity, Korea University	<i>2015</i>
<b>B.Sc.</b>	Computer Science, Soongsil University	<i>2008</i>

## V. TEACHING EXPERIENCE

### A. UNIVERSITY COURSES TEACHING

1.	Network Forensics (Higher diploma and Master's)		<i>Spring. 2024</i>
2.	Smart City Forensics (Master's)		<i>Spring. 2024</i>
3.	Malware Analysis (Master's)		<i>Fall. 2023</i>
4.	Cybersecurity and Cybercrime (Higher and Master's)		<i>Fall. 2023</i>
5.	Network Forensics (Higher diploma and Master's)		<i>Spring. 2023</i>
6.	Malware Analysis (Master's)		<i>Fall. 2022</i>
7.	Cybersecurity and Cybercrime (Higher and Master's)		<i>Fall. 2022</i>
8.	Network Forensics (Higher and Master)		<i>Spring. 2022</i>
9.	Cybersecurity and Cybercrime (Higher and Master's)		<i>Fall. 2021</i>
10.	Network Forensics		<i>Spring. 2021</i>
11.	Cybersecurity and Cybercrime (Higher Diploma)		<i>Fall. 2020</i>
12.	Advanced Hacking Practice, Undergraduate Student		<i>Spring. 2020</i>
13.	Practical of cyber security, Graduate Student		<i>Spring. 2020</i>
14.	Theory and Practice of Hacking Defense, Undergraduate Student		<i>Spring. 2020</i>
15.	Basic Hacking Practice, Undergraduate Student	<i>5.64/6.0</i>	<i>Fall. 2019</i>
16.	Subject 66, Undergraduate Student <b>* The Excellent Teaching Award</b>	<i>5.82/6.0</i>	<i>Fall. 2019</i>
17.	Practical of cyber security, Graduate Student		<i>Fall. 2019</i>
18.	Advanced Hacking Practice, Undergraduate Student	<i>5.59/6.0</i>	<i>Spring. 2019</i>
19.	Practical of cyber security, Graduate Student		<i>Spring. 2019</i>
20.	Basic Hacking Practice, Undergraduate Student	<i>5.72/6.0</i>	<i>Fall. 2018</i>
21.	Subject 66, Undergraduate Student <b>* The Excellent Teaching Award</b>	<i>5.71/6.0</i>	<i>Fall. 2018</i>

22.	Advanced Hacking Practice, Undergraduate Student	5.62/6.0	Spring. 2018
23.	Practical of cyber security, Graduate Student		Spring. 2018
24.	Basic Hacking Practice, Undergraduate Student	5.51/6.0	Fall. 2017
25.	Subject 66, Undergraduate Student <b>* The Excellent Teaching Award</b>	5.81/6.0	Fall. 2017
26.	Advanced Hacking Practice, Undergraduate Student	5.44/6.0	Spring. 2017
27.	Hacking and Security, Undergraduate Student	5.62/6.0	Spring. 2017
28.	Practical of cyber security, Graduate Student		Spring. 2017
29.	Basic Hacking Practice, Undergraduate Student	5.29/6.0	Fall. 2016

“Thank you the best and wonderful. Prof. Kim, I learned from you many things in this life, I hope I can return these things in future to you, I appreciate you because you are teaching as higher quality of learning style. I hope to study with you in all courses of the future.

الدكتور الرائع كيم، أتقدم بجزيل الشكر لك على ما قدمته لنا من خبرات علمية وعملية قيمة، والتي استفدنا منها كثيرًا. أشعر بفخر عظيم لأنني كنت أحد طلابك، وأتطلع دومًا لتطبيق ما تعلمته في مسيرتي المهنية.

الطالب: زياد الجندي

“코로나로 인해 온라인 수업이 진행되었음에도 불구하고, 교수님께서 정말 모든 강의를 열성적으로 촬영해 주셔서 전혀 온라인 수업으로 인한 불편함을 느끼지 못했습니다. 한학기동안 최고의 수업 정말 감사드립니다!” - Advanced Hacking Practice, Spring. 2020

“그 누구보다도 학생을 위한 교수님이시며, 정말 좋은 강의를 보여주셨습니다”. – Subject 66, Fall 2019

“내가 해킹을 배우는 이유는 컴퓨터가 어떤 것인지 이해하기 위한 하나의 수단이었다. 그러나 이 수업을 듣고 해킹은 목표가 되었다. 수업 내용도 좋았고, 교수님의 수업 방식도 매우 좋았습니다. 수업 시간이 3시간이 넘어서 약간 힘들었지만, 끝까지 집중해서 듣고 싶다는 생각이 들었던 수업입니다. 감사합니다.)” – Subject 66, Fall 2019

“이론적인 원리를 먼저 설명해주신 다음에 학생들에게 실습할수 있는 기회를 주셔서 배움에 더 도움이 되었습니다. 어려운 내용을 자세하게 잘 알려주셨고 학생 발표 수업도 있어서 상당히 많은 것을 배울 수 있던 수업이었습니다.” - Advanced Hacking Practice, Spring. 2019

“훌륭한 교수님의 훌륭한 수업입니다. 많은 것을 배우기도 했고, 스스로 연구를 해볼 수 있는 기회를 통해 제 자신의 역량을 향상시킬 수 있었습니다.” - Advanced Hacking Practice, Spring. 2019

“실력과 인품이 넘쳐흐르는 훌륭한 교수님의 최고 강의였습니다. 흠을 잡고자 머리를 싸매고 고심했으나 도무지 떠오르는 단점이 없었습니다. 많은 걸 배웠고 즐겁게 배웠습니다. 교수님이 석탑강의상을 꼭 받으셨으면 좋겠습니다”. – Basic Hacking Practice, Fall 2018

“실습수업인만큼 환경설정, 따라해야할 명령어 하나하나가 중요한데, 수업자료의 디테일함과 완성도가 높아 유익했고, 물론 한학기동안 교수님의 강의또한 매우 유익했습니다. 즐거운 수업이었습니다 감사합니다.” – Basic Hacking Practice, Fall 2018

고급해킹실습은 기초해킹실습보다 어려운 내용을 다루셔서 어려웠지만 교수님께서 자세히 알려주셔서 쉽게 배울 수 없는 해킹을 경험해볼 수 있는 수업이었습니다. 해킹에 대해 아는 것이 많이 없어도 수업을 잘 따라갈 수 있었습니다. - Advanced Hacking Practice, Spring. 2018

“ROP... Good” - Advanced Hacking Practice, Spring. 2018

“매 수업시간에 주제별로 실습을 해볼 수 있어서 좋았습니다. 하나하나 함께 해주셔서 따라가기도 수월했고, 평소에 혼자서 시도하면 이해하고 따라해 보는 데에 2-3배의 시간이 걸리는 부분들을 잘 정리해주셔서 설명해주시니 좋았습니다. 그리고 마지막에 소개해주신 여러 커리어들의 로드맵도 초심자로서 많은 도움이 되었습니다.” – Basic Hacking Practice, Fall 2017

“매우 좋은 수업이었고 최고의 강의였습니다.” – Subject 66, Fall 2017

“제가 사이버국방학과에 와서 제일 배우고 싶었던 수업이었습니다. 수업 주제도 흥미롭고 좋았지만, 강의 방식이 정말 좋았습니다. 사랑합니다 교수님~” - Subject 66, Fall 2017

“진짜 학생들에게 지식을 전달하려 하는 참교수님이시다. 평가하기 위한 수업이 아니라 가르침을 받기 위한 수업으로 느껴졌다. 정말 해킹의 걸만 살짝 배웠지만 충분히 재미를 느낄 수 있었고 학생들의 의견을 적극적으로 반영하였다.” - Subject 66, Fall 2017

최고의 수업입니다. 이 수업 평가에서 1점이라도 감점하는 사람이 있으면 제가 직접 찾아가서 이유를 묻고 싶을 정도입니다. 전공과 가장 관련된 과목이었고, 평소 흥미에 맞았기 때문에 열심히 들은 것도 있지만 무엇보다도 교수님께서 항상 학생들의 의견을 존중해 주시는 모습이 정말 좋았습니다. 한 학기 동안 정말 감사했습니다 교수님! - Subject 66, Fall 2017

“정말 구글링해도 알기 힘든 그런 고급해킹 기법들을 교수님이 직접 만드신 실습 ppt를 통해 혼자 학습 할 수 있을만큼 좋은 정보를 전달해 주셨고 어려운 수업임에도 불구하고 질문하면 너무 친절히 잘 설명해 주셔서 전반적인 실력향상에 많은 도움이 된 수업 앞으로 우리과에 이런 실기적인 수업이 많이 생기면 좋겠다.” - Advanced Hacking Practice, Spring 2017

“김경곤 멘토님의 수업이 앞으로 고려대에서 지속적으로 강의될 수 있으면 좋겠습니다. 사이버 보안 관련하여 심도있게 배우는 거의 유일한 수업이라고 생각하고, 배워갈 수 있는 부분이 굉장히 많다고 생각합니다. 한 학기 동안 수업 잘 들었습니다.” - Advanced Hacking Practice, Spring 2017

“한 학기동안 보안에 관해 전반적으로 잘 가르쳐주셔서 감사합니다. 덕분에 보안 분야에 뭐가 있는지 큰 틀이나 방향은 잡은 것 같습니다.

버려지는 학생 없이 모든 학생들이 잘 따라올 수 있게 이끌어 주셨으며 특히 기말고사는 4년동안 많은 시험을 치르면서 그렇게 재밌고 부담없는 시험은 처음이었습니다. 아무래도 이론으로는 받아 들이는데 한계가 있을법한데 실습을 통해서 잘 케어해 주신 것 같습니다.

교수님을 만나뵙게 되어 정말 영광이었습니다. 감사합니다!” – Hacking and Security, Spring 2017

“The Best class.” – Basic Hacking Practice, Fall 2016

“신선한 시도를 한 수업이라고 생각해서 너무 좋았습니다. 해당분야의 전반적인 지식을 얻기가 좀처럼 쉽지 않은데 이런 수업을 통해서 큰 그림을 그릴 수 있는 넓은 지식들을 배울 수 있었습니다. 교수님께서도 수업에 열의가 많으셔서 매번 알찬 자료를 준비해주시고 수업시간에 다 못하더라도 필요한 자료들은 개별적인 홈페이지를 통해서 제공해 주셨기 때문에 관심있는 학생들은 따로 공부하기가 더 수월했다고 생각합니다. 또한 위게임을 이번수업을 통해서 처음 접했는데 막연하게 생각하던 위게임이 이번 수업을 계기로 퍼즐풀기와 같이 재미있게 느껴졌습니다. 감사합니다!” – *Basic Hacking Practice, Fall 2016*

“해킹은 지금까지 느끼기에 혼자서 공부하고 시행착오를 겪으면서 혼자 하는 것이라고 생각했는데 학교에서 체계적으로 배울 수 있어서 아주 좋았습니다. 초심자들을 위해서 단계적으로 알려주셔서 정말 따라가기 수월했고 매 시간 하는 프리테스트는 복습을 잘 할 수 있도록 해주셔서 좋았습니다. 텀프로젝트도 개인의 실력을 올릴 수 있도록 내주셔서 정말 감사했습니다. 등록금이 아깝지 않은 가장 만족하는 강의중 하나입니다. 감사합니다. – *Basic Hacking Practice, Fall 2016*

## B. SPECIAL PRESENTATION and LECTURES

- |   |             |
|---|-------------|
| 1. Cybersecurity Incident Responder Training Program (6 weeks)  | 2023.09-11. |
| 2. Cybercrime Investigator Training Program (5 weeks + 3 days)  | 2023.09-11. |
| 3. Cybersecurity Incident Responder Training Program (6 weeks)  | 2023.04-06. |
| 4. Cybercrime Investigator Training Program (5 weeks + 3 days)  | 2023.04-06. |
| 5. Cybersecurity Investigator Training Program  | 2022.09-11. |
| 6. Cybersecurity Incident Responder Training Program (6 weeks)  | 2022.04-06. |
| 7. Cybercrime Investigator Training Program (5 weeks + 3 days)  | 2022.04-06. |
| 8. Network Forensics, UNOCT-NAUSS Cyber-Terrorism Workshop  | Dec. 2021   |
| 9. Cybersecurity and Cybercrime Foundation, Kingdom of Saudi Arabia Government  | Jul. 2021   |
| 10. Cyber-terrorism in MENA, nominated speaker from NAUSS, CEPOL, CT INFLOW   | Jun. 2021   |
| 11. Cybersecurity and North's Korea's Cyber Operations and Strategies, EUCTER   | Jun. 2021   |
| 12. Ransomware Analysis: file encryption and decryption mechanism, ITU Academy.   | Apr. 2021   |
| 13. Cybersecurity and Cybercrime Foundation, Kingdom of Saudi Arabia Government   | Apr. 2021   |
| 14. How Money Laundering Happens Via Virtual Assets: From White Hacker's Perspective on State Sponsored Hacker, The 4th Global Conference on Criminal Finances and Cryptocurrencies. Co-organized by the Basel Institute on Governance, INTERPOL and Europol. | Nov. 2020   |
| 15. Private Discussion, about the cybersecurity, Hudson Institution   | Sep. 2020   |
| 16. Malicious code analysis and development, Cyber Commander, South Korea   | May. 2020   |
| 17. Hacking and Security Winter Camp Lecture, Gyeonggi Science High School for the Gifted, Hosted by Korea University   | Jan. 2020   |

18. Offensive Cybersecurity Big Picture Courses, Seoul Women's University *Aug. 2019*
19. Hacking and Security Summer Camp Lecture, Gyeonggi Science High School for the Gifted, Hosted by Korea University *Aug. 2019*
20. Cybercrime, E4J University Modules Series Lecture, United Nations Office on Drugs and Crime. Tashkent, Uzbekistan *Jul. 2019*
21. ICT Security Trends and Issues: Network Hacking and Security, Trans-Eurasia Information Network *Jul. 2019*
22. Artificial Intelligence and Cybersecurity Panelist, Korea Internet Governance Forum (KrIGF) *Jul. 2019*
23. Hacking and Security Winter Camp Lecture, Gyeonggi Science High School for the Gifted, Hosted by Korea University *Jan. 2019*
24. Hacking and Security Summer Camp Lecture, Gyeonggi Science High School for the Gifted, Hosted by Korea University *Jul. 2018*
25. Hacking and Security Winter Camp Lecture, Gyeonggi Science High School for the Gifted, Hosted by Korea University *Jan. 2018*
26. Web Hacking Lecture, Advanced Information Security Program, Taiwan (Taipei, Taichung, and Kaohsiung) *Aug. 2017*
27. Cybersecurity Awareness Lecture, Ministry of Foreign Affairs *Jul. 2017*
28. State-Sponsored Hackers, NetSec-KR 2017 *Jul. 2017*
29. Cybersecurity Career Roadmap Special Lecture, CodeGate 2017 *Apr. 2017*
30. Hacker and Nation, Cybersecurity and National Security 2<sup>nd</sup> part, Cybersecurity and International Politics, Institute of International Studies, Seoul National University *Jan. 2017*
31. IoT Hacking and Security Trends, DreamSecurity, Inc. *Oct. 2016*
32. Cybersecurity in FinTech, World Bank and Asia Development Bank. *Sep. 2016*
33. Web Hacking Lecture, Advanced Information Security Program, Taiwan (Taipei, Taichung, and Kaohsiung) *Aug. 2016*
34. Hackers and Cybersecurity Consultant, WhiteHat Contest *Oct. 2015*
35. GCCD National Cybersecurity Master Plan, KISA *Oct. 2015*
36. Cybersecurity Career Roadmap, Code Engine Conference *Jun. 2014*
37. Incident Response, Reverse Engineering, Web Hacking, National Cyber Security Center *Nov.2006-  
Jan.2007*
38. Penetration Testing, KISEC *Nov. 2006*

## VI. PUBLICATIONS

### A. BOOKS and TRANSLATION

1. Internet Hacking and Security – 4th Edition. *Jun. 2022*  
1<sup>st</sup> author, ISBN: 9791156646037, 456 pages
2. Internet Hacking and Security - 3rd Edition. *Jun. 2017*  
1<sup>st</sup> author, ISBN10: 1156643279, ISBN13: 9791156643272, 488 pages



3. Cyber Security and National Security Strategy, Translation. *May. 2015*  
Acorn Publish: ISBN10: 8960777056, ISBN13: 9788960777057, 780 pages.  
Original Title: Cyberpower and National Security  
ISBN-10: 1597974234, ISBN-13: 978-1597974233
4. A Perfect Guide to Database Hacking and Security. Translation. Acorn Publish: ISBN10: 8960776203, ISBN13: 9788960776203, 593 pages. *Oct. 2014*  
Original Title: The Database Hacker's Handbook.: Defending Database Servers: ISBN-10: 0764578014, ISBN-13: 978-0764578014
5. A Perfect Guide to Web Hacking. Translation. Acorn Publish. *Aug. 2014*  
: ISBN10: 8960775967, ISBN13: 9788960775961, 1116 pages.  
Original Title: The Web Application Hacker's Handbook.: Finding and Exploiting Security Flaws  
: ISBN-10: 1118026470, ISBN-13: 978-1118026472
6. Internet Hacking and Security - 2nd Edition. Hanbit Academy. 1st Author : *Jan. 2014*  
ISBN10: 8998756668, ISBN13: 9788998756666, 452 pages.
7. Wireless network attacks and defenses for hackers. Translation. Acorn Publish.: ISBN10: 8960772178, ISBN13: 9788960772175, 212 pages. *Jul. 2011*  
Original Title: Seven Deadliest Wireless Technologies Attacks (Seven Deadliest Attacks) : ISBN-10: 1597495417, ISBN-13: 978-1597495417
8. Nmap Network Scanning: Nmap Official Guide for Network Discovery and Security Scanning. Translation. Acorn Publish. *Nov. 2009*  
: ISBN10: 8960771066, ISBN13: 9788960771062, 672 pages.  
Original Title: Nmap Network Scanning: The Official Nmap Project Guide to Network Discovery and Security Scanning  
: ISBN-10: 0979958717, ISBN-13: 978-0979958717
9. Command line application guide for Windows system administrators *Mar. 2009*  
Translation. Acorn Publish.: ISBN10: 8960771066, ISBN13: 9788960770775, 552 pages.  
Original Title: How to Cheat at Windows System Administration Using Command Line Scripts : ISBN-10: 1597491055, ISBN-13: 978-1597491051
10. Translation Book: Practical packet analysis using wire shark. Translation. *Dec. 2007*  
Acorn Publish.: ISBN10: 8960770272, ISBN13: 9788960770270, 240 pages.  
Original Title: Practical Packet Analysis: Using Wireshark to Solve Real-World Network Problems : ISBN-10: 1593271492, ISBN-13: 978-1593271497
11. Introduction to Information Security and Practice: Internet Hacking and Security. Hanbit Academy. 2nd author : *May. 2005*  
ISBN10: 8979143311, ISBN13: 9788979143317, 576 pages.

## B. PUBLICATIONS and SUBMITTED JOURNAL ARTICLES

- J1. Lee, Hyunjung, Suryeon Lee, Kyounggon Kim, and Huykang Kim. "HSViz-II: Octet Layered Hierarchy Simplified Visualizations for Distributed Firewall Policy Analysis." *IEEE Access* (2023).
- J2. Almorjan, Abdulrazaq, Kyounggon Kim, and Norah Alilwit. NAUSS Ransomware Trends Report in Arab Countries 2020-2022. 2023. جامعة نايف العربية للعلوم الأمنية.

- J3. Ramachandran, Sundaresan, Jeet Rami, Abhinav Shah, Kyounggon Kim, and Digvijaysinh Mahendrasinh Rathod. "Defence against crypto-ransomware families using dynamic binary instrumentation and DLL injection." *International Journal of Electronic Security and Digital Forensics* 15, no. 4 (2023): 424-442.
- J4. Jeon, Yu-Min, Won-Mu Heo, Jong-Min Kim, and Kyounggon Kim. "Multimedia Distribution Process Tracking for Android and iOS." arXiv preprint arXiv:2304.03848 (2023).
- J5. Kim, Kyounggon, Istabraq Mohammed Alshenaifi, Sundaresan Ramachandran, Jisu Kim, Tanveer Zia, and Abdulrazaq Almorjan. "Cybersecurity and Cyber Forensics for Smart Cities: A Comprehensive Literature Review and Survey." *Sensors* 23, no. 7 (2023): 3681.
- J6. Kim, Kyoung Ho, Kyounggon Kim, and Huy Kang Kim. "STRIDE-based threat modeling and DREAD evaluation for the distributed control system in the oil refinery." *ETRI Journal* (2022).
- J7. Alfouzan, Faisal Abdulaziz, Kyounggon Kim, and Nouf M. Alzahrani. "An Efficient Framework for Securing the Smart City Communication Networks." *Sensors* 22.8 (2022): 3053.  
<https://doi.org/10.3390/s22083053>
- J8. Jihun Son, Yeong Woong Kim, Dong Bin Oh, Kyounggon Kim, Forensic Analysis of Instant Messengers: Decrypt Signal, Wickr, and Threema, *Elsevier- Forensics Science International: Digital Investigation, (SCIE, IF 2.740)*, 2022.03. (Corresponding author)  
<https://doi.org/10.1016/j.fsidi.2022.301347>
- J9. Ibrahim Adam, Abdulrahman Al Qunaibit, Nayef Shabeb, Faisal Al Fehaid, **Kyounggon Kim**, Web Application based Image Geolocation Analysis to Detect Human Trafficking, *Journal of Information Security and Cybercrime Research*, 2021.12. (Corresponding author)  
<https://doi.org/10.26735/XZBI5196>
- J10. Kyounggon Kim, Faisal Alfouzan, Huy Kang Kim, Cyber-Attack Scoring Model Based on the Offensive Cybersecurity Framework, *Applied Sciences*, 2021.08. (SCIE, IF 2.679, Q2)  
<https://doi.org/10.3390/app11167738>
- J11. Hyunjung Lee, Suryeon Lee, **Kyounggon Kim**, Huykang Kim, "HSViz: Hierarchy Simplified Visualizations for Firewall Policy Analysis," in *IEEE Access*, (SCIE, IF 3.745, Q1), 2021.05.  
<https://doi: 10.1109/ACCESS.2021.3077146>.
- J12. **Kyounggon Kim**, Huy Kang Kim. Cybersecurity for Autonomous Vehicles: Review of Attacks and Defenses, *Elsevier- Computers & Security, (SCIE, IF 4.340, Q1)*, 2021.03. (1<sup>st</sup> author)  
<https://doi.org/10.1016/j.cose.2020.102150>
- J13. Hyunmin Kim, InSeok Kim, **Kyounggon Kim**. AIBFT: Artificial Intelligence Browser Forensic Toolkit, *Elsevier- Forensics Science International: Digital Investigation, (SCIE, IF 2.740), Q1*, 2021.03. (Corresponding author)  
doi: <https://doi.org/10.1016/j.fsidi.2020.301091>
- J14. Hee Yeon Kim, Ji Hoon Ki, Ho Kyun Oh, Beom Jin Lee, Si Woo Mun, Jeong Hoon Shin, **Kyounggon Kim**, DAPP: Automatic Detection and Analysis of Prototype Pollution Vulnerability in Node.js Modules, *Springer International Journal of Information Security* (IF 1.822), 2021.02. (Corresponding author)  
<https://doi.org/10.1007/s10207-020-00537-0>

- J15. So-Hyeon Cho, Dong-Seok Kang, Min-Song Kang, Hyeon-Soo Kim, Jin-Woong Bae, Chung-Il Lee, and Han-Byeol Ji, Yo-Han Won, Hyeon-Kyoung Hong, **Kyounggon Kim**. A Study on Threat Modeling in Smart Greenhouses, *Journal of Information Security and Cybercrime Research*, 2020.12. (Corresponding author)
- J16. GyungMin Lee, ShinWoo Shim, ByoungMo Cho, TaeKyu Kim, **Kyounggon Kim**, Fileless cyber-attacks: Analysis and Classification, *ETRI Journal*, (SCIE, IF 1.240, Q2), 2020.12. (Corresponding author)  
doi: <https://doi.org/10.4218/etrij.2020-0086>
- J17. **Kyounggon Kim**, Kiyoon Cho, Jihwan Lim, Young ho Jung, Min Seok Sung, Seong Beom Kim and Huy Kang Kim. What's Your Protocol: Vulnerabilities and Security Threats Related to Z-Wave Protocol. *Elsevier- Pervasive and Mobile Computing*, June 2020. (1<sup>st</sup> author)  
doi: <https://doi.org/10.1016/j.pmcj.2020.101211>  
*CiteScore: 7.0, IF: 3.5 (SCIE, Journal Impact 2019-20), Q1, Top 5%*
- J18. Changseon Lee, Huy Kang Kim, Heyrin Won, **Kyounggon Kim**. A method for preventing online games hacking using memory monitoring. *ETRI Journal*, Dec 2020. (SCIE, IF 1.240, Q2) (Corresponding author)  
doi: <https://doi.org/10.4218/etrij.2019-0427>
- J19. Oh, In-Kyung, Jae-Wan Seo, Min-Kyu Lee, Tae-Hoon Lee, Yu-Na Han, Ui-Seong Park, Han-Byeol Ji, Jong-Ho Lee, Kyu-Hyung Cho, and **Kyounggon Kim**. Derivation of Security Requirements of Smart TV Based on STRIDE Threat Modeling. *Journal of the Korea Institute of Information Security & Cryptology* 30, no. 2, pp. 213-230, May 2020. (Corresponding author)  
doi: <https://doi.org/10.13089/JKIISC.2020.30.2.213>
- J20. GyungMin Lee, ShinWoo Shim, ByoungMo Cho, TaeKyu Kim, and **KyoungGon Kim**. The Classification Model of Fileless Cyber Attacks. *Journal of KIISE*, Vol. 47, No. 5, pp. 454-465, May 2020. (Corresponding author)  
doi: <https://doi.org/10.5626/JOK.2020.47.5.454>
- J21. Lee, Suhyeon, Huy Kang Kim, and **Kyounggon Kim**. "Ransomware protection using the moving target defense perspective." *Elsevier- Computers & Electrical Engineering* 78, pp. 288-299, September 2019. (Corresponding author)  
doi: <https://doi.org/10.1016/j.compeleceng.2019.07.014>  
*CiteScore: 5.3, Rank #32/221, Q1, Top 15%*
- J22. You, Jaewook, Mijeong Han, Kyuheon Kim, Junyoung Jang, Hoyong Jin, Hanbyeol Ji, Jeonghoon Shin, and **Kyounggon Kim**. A Study on Method for Bypassing Verification Function by Manipulating Return Value of Android Payment Application's Security Solution. *Journal of the Korea Institute of Information Security and Cryptology* 28, no. 4, pp. 827-838, 2018. (Corresponding author)  
doi: <https://doi.org/10.13089/JKIISC.2018.28.4.827>
- J23. **Kim, Kyoung Gon**. Countermeasure of financial e-payment app security solution problem. *Korea Contents Association Review* 16, no. 2, pp. 14-19, 2018. (1<sup>st</sup> author)
- J24. **Kyounggon Kim**. Cybersecurity Career Roadmap. *The Magazine of the IEIE* 41, no. 4, pp. 50-59, 2014, (1<sup>st</sup> author)
- J25. Lee, Sang-Jin, So-Yeon Hwang, **Kyung-Gon Kim**, and Sung-Koo Ryeo. Internet Banking Service Vulnerability Analysis and Security Solution. *Convergence Security Journal* 7, no. 2, pp. 119-128, 2007

### C. PUBLICATIONS and SUBMITTED CONFERENCE ARTICLES

- C1. BAE, Yujin, Hwang, Y., Kang, M., Lee, S., Kim, S., Choi, Y., **Kyounggon Kim**. Clustering For Detecting Ethereum-Based Scam Coins. In: Proceedings of the Korea Information Processing Society Conference. Korea Information Processing Society, 2021. p. 247-250.
- C2. Dongseok Kang, Minsong Kang, Hyunsu Kim, Jinwoong Bae, Chungil Lee, Sohyeon Cho, Yohan Won, Hyunkyung Hong, Hanbyul Ji and **Kyounggon Kim**, A Study using STRIDE Threat Modeling on Smart Farm Threat Analysis and Security Requirements, *Conference on Information Security and Cryptography-Summer 2020 (CISC-W 2020)*
- C3. Hyeongmin Kim, Suhyeon Oh, Yerin Im, Hyeonseong Jeong, Jiwon Hong, Jaehyeon Cho, **Kyounggon Kim** and Hyeonmin Kim, A Study on Client-Side-Based Web Attack Response Using Ensemble Model, *Conference on Information Security and Cryptography-Summer 2020 (CISC-W 2020)*
- C4. Seongbeom Park, **Kyounggon Kim**, Static Analysis of IoT Mirai Botnet Malicious Code, *Conference on Information Security and Cryptography-Summer 2020 (CISC-S 2020)*
- C5. Taejun Lee, **Kyounggon Kim**, A Study on different types and legal bases of Digital Undertaking, *Conference on Information Security and Cryptography-Summer 2020 (CISC-S 2020)*
- C6. Changjo Yun, **Kyounggon Kim**, A Study of Shellcode Exploitation and Mitigation via Python Pickle Module, *Conference on Information Security and Cryptography-Summer 2020 (CISC-S 2020)*
- C7. Seonyeong Park, **Kyounggon Kim**, A Study for the Detailed Cryptographic Process of WhatsApp through Reverse Analysis, *Conference on Information Security and Cryptography-Summer 2020 (CISC-S 2020)*
- C8. GunHee Ahn, YeEun Lee, SoYeon Lee, HyeonWoo Cho, Kwangho Park, SeongjIn Park, **Kyounggon Kim**, JungHoon Shin. Remote Serial Protocol and File Systems using Cisco Embedded OS and Implementing a Dynamic Analysis Tool. *KSC2019*  
**\* Excellent Paper Award**
- C9. Beomjin Lee, Siwoo Mun, Jaewook You, Jeonghoon Shin, **Kyounggon Kim**. A study on the methodology of Node.js vulnerability analysis. *KIPS-Fall*, VOL 26 NO. 02 PP. 0479 ~ 0482 2019. 11
- C10. HeeYeon Kim, Ho Kyun Oh, Ji Hoon Kim, Jaewook You, JeongHoon Shin, **Kyounggon Kim**. Node.js module vulnerability analysis based on AST and CFG. *KIPS-Fall*, VOL 26 NO. 02 PP. 0475 ~ 0478 2019. 11
- C11. Ji-Young, Kong, Lim Jong In, and **Kim Kyoung Gon**. The All-Purpose Sword: North Korea's Cyber Operations and Strategies. In *2019 11th International Conference on Cyber Conflict (CyCon)*, vol. 900, pp. 1-20. IEEE, 2019.  
doi: <https://doi.org/10.23919/CYCON.2019.8756954> [\[Link\]](#)

- C12. Ji-Hwan Lim, Ki-Yoon Cho, Min-Suk Sung, Sung-Bum Kim, Young-Ho Jung, **Kyounggon Kim**, GyoungMoon Lee, HawJung Seo. Z-Wave security vulnerability analysis. *Conference on Information Security and Cryptography-Winter (CISC-W 2018)*  
\* **Excellent Paper Award**
- C13. Jin-Kyung Lee, Kyoung-Min Kim, Yun-Seo Jung, Jin-Woo Lee, Yeon-Ho Kang, Kyu-Heon Kim, Sang-Sup Lee, **Kyounggon Kim**. Analysis of Pseudo Random Number Generation in Smart Contract. *Conference on Information Security and Cryptography 2018 Winter (CISC-W 2018)*
- C14. Young-Su Kim, Hye-Rin Won, Jae-Woo Jeong, Min-Su Ryu, Hyeon-Ji Kim, Eui-Yeon Kim, **Kyounggon Kim**. Study on packet extraction before encryption with SSL. *Conference on Information Security and Cryptography 2018 Winter (CISC-W 2018)*
- C15. Jin-Woo Lee, Kyoung-Min Kim, Yun-Seo Jung, Jin-Kyung Lee, Yeon-Ho Kang, Kyu-Heon Kim, Sang-Sup Lee, Kyounggon Kim. PwnETH: Ethereum Smart Contract Exploit Library. *Conference on Information Security and Cryptography 2018 Winter (CISC-W 2018)*
- C16. Hye-Rin Won, Hyeon-Ji Kim, Jae-Woo Jeong, Min-Su Ryu, Young-Su Kim, Eui-Yeon Kim, **Kyounggon Kim**. A Study of the Instance Message Security Assessment. *Korea multimedia society*, 2018
- C17. Kim, Kyuheon, Mijeong Han, Jaewook You, Junyoung Jang, Hoyong Jin, Hanbyeol Ji, **Kyounggon Kim**, Jeonghoon Shin, A Study on Countermeasure for Bypassing Android Security Solution through Manipulating Return Value. *In Proceedings of the Korea Institutes of Information Security and Cryptology Conference*. 2017.
- C18. Jeong, Se-Yeon, I-Ju Choi, Yeong-Jin Kim, Yong-Min Shin, Jeong-Hun Han, Goo-Hong Jung, **Kyoung-Gon Kim**. A study on ros vulnerabilities and countermeasure. *In Proceedings of the Companion of the 2017 ACM/IEEE International Conference on Human-Robot Interaction*, pp. 147-148. 2017.  
doi: <https://doi.org/10.1145/3029798.3038437>
- C19. San-hwi Yang, In-hyeok Park, Seung-myung Lee, Young-joo Lee, Ja-il Jo, A-reum Lee, Jeong-hoon Shin, **Kyounggon Kim**. A Study on Remote Access Software and their Cyber Terror Attack Scenarios. *Conference on Information Security and Cryptography 2017 Winter (CISC-W 2017)*
- C20. Kyuheon Kim, Mijeong Han, Jaewook You, Junyoung Jang, Hoyong Jin, Hanbyeol Ji, **Kyounggon Kim**, Jeonghoon Shin. A Study on Countermeasure for Bypassing Android Security Solution through Manipulating Return Value. *Conference on Information Security and Cryptography 2017 Winter (CISC-W 2017)*
- C21. **Kyounggon Kim**, Jong Hyeong Lee, Hun Yeong Kwon, Huy Kang Kim. A study of relationship between a bug bounty program and an information security law in Korea. *Conference on Information Security and Cryptography-Summer 2017 (CISC-S 2017)*.
- C22. Gyung min Lee, **Kyounggon Kim**, Sang jin Lee. Analysis and Detection Methods for the Fileless In-memory. *Conference on Information Security and Cryptography-Summer 2017 (CISC-S 2017)*.

- C23. **Kim, Kyoung-gon.** State-Sponsored Hacker and Changes in hacking techniques. *NetSec-KR*. 2017.
- C24. **Kyounggon Kim.** State-Sponsored Hacker and Changes in hacking techniques. *Secuinside* 2017.
- C25. **Kyounggon Kim, Kim Soo Hoon.** Using Threat Modeling for Risk Analysis of SmartHome. In *Proceedings of Symposium of the Korean Institute of communications and Information Sciences*, pp. 378-379. 2015.
- C26. **Kyounggon Kim, Soohoon Kim, Hongjin Kim, HyoGeun Oh, Jongchan Lee, Hojin Lee, Hyojeong Jung, Yoohyeon Cha.** Using Threat Modeling for Risk Analysis of SmartHome. *Proceedings of the Fall Conference of the Korean Institute of Communication Sciences*, 2015
- C27. **Kyounggon Kim, Huy Kang Kim.** A Study on methods to identify and defend against Evil Twin Attack (Impersonated Profile) on online social network sites. *Korean Management Information Society Conference*. 2011.

## VII. RESEARCH & DEVELOPMENT EXPERIENCE

### A. RESEARCH PROJECT

1. Practical Cybercrime Threat Intelligence Implementation based on real-data collection and analysis, Role: PI, Funding institution: Naif Arab University for Security Sciences, Project period: May 2023-May 2024.
2. Research on Ransomware crime syndicates that gain proceeds of crime based on darknet and cryptocurrency in Arab World, Role: PI, Funding institution: Naif Arab University for Security Sciences, Project period: May 2023-May 2024.
3. Smart Ship Cybersecurity Research Project, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI), Best of the Best Program 12<sup>th</sup>, September 2023-December 2023.
4. Cybersecurity and Cyber Forensics in Smart Cities, Role: PI, Funding institution: Naif Arab University for Security Sciences, March 2022-December 2022.
5. Development of information security management system and level of protection and verification tools based on the legal system in the medical field for the utilization of multi-institutional CDM, Role: Project part leader, Funding institution: Ministry of Health and Welfare, Research Period: September 2019-December 2021.
6. A Study of Classification and Similarity for Fileless cyberattack, Role: PI, Funding institution: LIG Nex1, Project Period: April 2019-December 2019.
7. Security Vulnerability Response Law Improvement Study Group, Role: Co-PI, Funding institution: Korea Internet & Security Agency (KISA), September 2019-November 2019.
8. Automatic Analysis for NodeJS Modules, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI) BoB (Best of Best Program) 8<sup>th</sup>, Project Period: September 2019-November 2019.
9. Z-Wave security vulnerability research, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI) BoB (Best of Best Program) 8<sup>th</sup>, Project Period: September 2019-November 2019

## **B. CYBERSECURITY TRAINING PROGRAM DEVELOPEMNT**

1. Cyber Forensics and Incident Response Specialization Course Development. Center of Excellence in Cybercrime and Digital Forensics, NAUSS, Dec. 2020–Feb. 2021.
2. Higher Diploma and master’s Program in Cybercrime and Digital Forensic Investigators. Center of Excellence in Cybercrime and Digital Forensics, NAUSS, Dec. 2020–Feb. 2021
3. Best of the Best Program. Developed courses and managing Cybersecurity Consulting Track, July. 2014–Present

## **VIII. PROFESSONL SERVICES ACTIVITIES**

### **A. JOURNAL REVIEW and EDITOR ACTIVITIES**

1. Elsevier – Computers and Security, 2023 (IF 4.438, Q1 Rank)
2. International Journal of Public Administration, 2023 (Q2 Rank)
3. IEEE Transactions on Reliability, 2022 (IF 4.424, Q1 Rank)
4. Nature – Scientific Reports, 2022 (IF 4.347, Q1 Rank)
5. IEEE Vehicular Technology Magazine, 2022 (IF 10.384, Q1 Rank)
6. ACM Computing Survey, 2022 (IF 10.282, Q1 Rank)
7. Elsevier – Computers and Security, 2022 (IF 4.438, Q1 Rank)
8. Taylor and Francis – Cybernetics and Systems, 2022 (IF 1.879)
9. Wiley - Concurrency and Computation: Practice and Experience, 2022 (IF 1.536)
10. Associate Editors, Journal of Information Security and Cybercrime Research (JISCR)
11. ACM Computing Survey, 2021 (IF 10.282, Q1 Rank)
12. Elsevier – Accident Analysis & Prevention, 2021 (IF 4.993, Q1 Rank)
13. Elsevier – Computers and Security, 2021 (IF 4.438, Q1 Rank)
14. Journal of Information Security and Cybercrime Research, 2021
15. KSII Transactions on Internet and Information Systems, 2021
16. IEEE Access, 2021 (IF 3.367, Q1 Rank)
17. Journal of Digital Forensics, 2020
18. Journal of Information Security and Cybercrime Research, 2020
19. IEEE Access, 2020 (IF 3.367, Q1 Rank)
20. ETRI Journal, 2020 (IF 1.347, Q2 Rank)
21. IEEE Communications Surveys and Tutorials, 2019 (IF 25.249, Q1 Rank)
22. ETRI Journal, 2019 (IF 1.347, Q2 Rank)
23. ACM Computing Survey, 2019 (IF 10.282, Q1 Rank)
24. KSII Transactions on Internet and Information Systems, 2019

### **B. CONFERENCE / CHALLENGE COMMITTEE ACTIVITIES**

1. EAI ICDF2C 2024, Technical Program Committee
2. DFRWS APAC 2023, TPC
3. The 14th IEEE International Conference on Internet of Things (iThings-2021), TPC
4. International Conference on Social Computing and Networking (SocialCom-2021), TPC
5. The 13th IEEE International Conference on Internet of Things (iThings-2020), TPC
6. International Conference on Social Computing and Networking (SocialCom-2020), TPC
7. The 19th IEEE International Conference on Scalable Computing and Communications, TPC
8. 3rd Information Security R&D Data Challenge, 2019. South Korea, Steering Committee Member
9. The 11th IEEE International Conference on Internet of Things (iThings-2018), TPC
10. The 16th IEEE International Conference on Smart City (SmartCity-2018), TPC

11. 2nd Information Security R&D Data Challenge, 2018. Steering Committee Member
12. 1<sup>st</sup> Information Security R&D Data Challenge, 2017. South Korea, SCM
13. The 9th IEEE International Conference on Internet of Things (iThings-2016), PC

### C. SUPERVISION OF HIGHER/MASTER STUDENTS

1. [Master] Moaaz Abdullatif Khujah, Saudi National Platform for Monitoring and Tracing Financial Fraud Activities (Unified Governmental Anti-Financial Frauds Platform), Received Student Excellence Award, Academic Year: 2022/2023
2. [Master] Lujain A. Alharbi and Istabraq M. Alshenaifi, Security and Forensics Analysis of IP-Cameras used in Saudi Arabia, Academic Year: 2022/2023
3. [Master] Saad Naif Albqoami, Web Application of Dashcam Evidence for Safety of Roads, Academic Year: 2022/2023
4. [Master] Walaa Hakem Alenazi, Implementation a Specialized Environment for Analysis of APTs Group Attack, Academic Year: 2022/2023

### D. PROFESSIONAL SOCIETY ACTIVITIES

1. UNOCT/UNCCT Expert Roundtable on CT and UAS Digital Forensics, 23 Mar 2022
2. UNOCT/UNCCT Expert Group Meeting on AI for Social Network Analysis, 09 Mar 2022.
3. ISC2 Exam Translation Workshop, Distinguished Subject Matter Expert, 2019

### E. CYBERSECURITY CONSULTING PROJECTS

- |  |                            |
|--|----------------------------|
| 1. Financial Supervisory Service. Pen-Testing.                         | <i>Aug. 2003</i>           |
| 2. Electronics and Telecommunications Research Institute. Pen-Testing. | <i>Aug.-Sep. 2003</i>      |
| 3. Hanwha Investment and Securities. Pen-Testing                       | <i>Sep.-Oct. 2003</i>      |
| 4. Korea Internet & Security Agency. Pen-Testing                       | <i>Oct. 2003</i>           |
| 5. Korea Telecom. Pen-Testing.   | <i>Oct.-Nov. 2003</i>      |
| 6. KorAm Bank. Pen-Testing.  | <i>Dec. 2003</i>           |
| 7. Kookmin Bank. Pen-Testing   | <i>Dec. 2003-Jan. 2004</i> |
| 8. Ministry of the Interior. Pen-Testing.                              | <i>Feb. 2004</i>           |
| 9. Ministry of Information and Communication. Pen-Testing.             | <i>Feb. 2004</i>           |
| 10. Korea Network Information Center. Pen-Testing.                     | <i>Mar.-Aug. 2004</i>      |
| 11. National Pension Service. Pen-Testing.                             | <i>Mar. 2004</i>           |
| 12. Korea Information Certificate Authority. Pen-Testing.              | <i>Apr. 2004</i>           |
| 13. Hanaro Telecom. Pen-Testing  | <i>Apr. 2004</i>           |
| 14. Korea Infrastructure Safety Corporation. Pen-Testing.              | <i>May. 2004</i>           |
| 15. SK Teletel. Pen-Testing.   | <i>May. 2004</i>           |
| 16. NC Soft. Security Solution BMT. Pen-Testing.                       | <i>Jun. 2004</i>           |
| 17. SK Telecom. Information Technology Institution. Pen-Test.          | <i>Jun. 2004–Aug. 2004</i> |
| 18. Hanaro Telecom. Pen-Testing.                                       | <i>Jul. 2004</i>           |



19.	Com2Us. Pen-Testing.	<i>Jul. 2004</i>
20.	Epaygen. Pen-Testing.	<i>Jul. 2004</i>
21.	Goodmorning Shinhan Investment and Securities. Pen-Test.	<i>Aug. 2004</i>
22.	SK Telecom. Information Technology Institution. Pen-Test.	<i>Aug. 2004</i>
23.	Seoul Metropolitan Government. Pen-Testing.	<i>Sep. 2004</i>
24.	Prudential Life Insurance Company of Korea. Pen-Testing.	<i>Sep. 2004</i>
25.	Industrial Bank of Korea. Pen-Testing.	<i>Oct. 2004</i>
26.	Kookmin Bank. Wireless Pen-Testing.	<i>Oct. 2004</i>
27.	Korea Network Information Center. Pen-Testing.	<i>Nov. 2004</i>
28.	Ministry of Information and Communication. Pen-Testing.	<i>Dec. 2004</i>
29.	Citibank Korea. Pen-Testing.	<i>Dec. 2004</i>
30.	National Assembly Secretariat. Pen-Testing.	<i>Dec. 2004</i>
31.	SK Communications. Pen-Testing.	<i>Jan. 2005</i>
32.	Dongseo Research. Forensic and Pen-Testing.	<i>Jan. 2005</i>
33.	Korean Broadcasting System. Pen-Testing.	<i>Jan. 2005</i>
34.	Dongbu Fire and Securities. Pen-Testing.	<i>Feb.-Mar. 2005</i>
35.	Hanaro Telecom. Security lecture ( <b>0-day Exploits</b> )	<i>Mar. 2005</i>
36.	NC Soft. Pen-Testing.	<i>Apr. 2005</i>
37.	NIDA. Pen-Testing.	<i>Apr. 2005</i>
38.	Citibank Korea. Security consulting. Security audit.	<i>Apr.-Oct. 2005</i>
39.	Goodmorning Shinhan Investment and Securities. Pen-Test.	<i>May. 2005</i>
40.	Shinsegae I & C. Pen-Testing.	<i>May. 2005</i>
41.	LG Electronics. Pen-Testing. * Finding several zero-day exploits	<i>Jun.-Aug. 2005</i>
42.	NC Soft. Pen-Testing.	<i>Sep. 2005</i>
43.	Daewoo Investment and Securities. Pen-Testing.	<i>Sep.-Oct. 2005</i>
44.	NC Soft. Pen-Testing.	<i>Oct. 2005</i>
45.	Saemaul Geumgo. Pen-Testing.	<i>Nov. 2005</i>
46.	ESTsoft. Pen-Testing.	<i>Nov. 2005</i>
47.	NC Soft. Pen-Testing.	<i>Dec. 2005</i>
48.	Cogame. Security Consulting.	<i>Jan. 2006</i>
49.	Shinsegae I & C. Pen-Testing.	<i>Jan. 2006</i>
50.	Lotte Data Communication. Pen-Testing.	<i>Jan. 2006</i>
51.	Prudential Investment and Securities. Pen-Testing.	<i>Feb. 2006</i>
52.	Korea Post Information Center. Pen-Testing.	<i>Mar. 2006</i>
53.	Suhyup Bank. Pen-Testing.	<i>Apr.-May. 2006</i>
54.	Nonghyup Bank. Pen-Testing.	<i>Jun. 2006</i>
55.	Bank of Korea. Phishing e-mail response training.	<i>Jun. 2006</i>
56.	Korea Education and Research Information Service. Pen-Test	<i>Jul. 2006</i>
57.	Supreme Prosecutor's Office. Pen-Testing.	<i>Aug. 2006</i>

58.	LOTTE Engineering & Machinery MFG. Pen-Testing.	Aug. 2006
59.	Nonghyup Bank. Pen-Testing.	Aug. 2006
60.	Daishin Securities. Pen-Testing.	Sep. 2006
61.	Daum. Pen-Testing.	Sep. 2006
62.	SK Telecom. Pen-Testing.	Oct. 2006
63.	Nonghyup Bank. Pen-Testing.	Nov. 2006
64.	Ministry of Information and Communication. Pen-Testing.	Dec. 2006
65.	Korea Development Bank. Pen-Testing.	Feb. 2007
66.	Dongbu Insurance. IT management assessment. Pen-Testing.	Mar. 2007
67.	SK Networks. Pen-Testing.	Mar.-Apr. 2007
68.	Korea Education and Research Information Servic. Pen-Test.	Apr.-Jul. 2007
69.	Defense Acquisition Program Administration. Pen-Testing.	May. 2007
70.	Supreme Court of South Korea. Secure SDLC assessment.	Jun. 2007
71.	KB Financial Group. Application Security Audit. Pen-Test. * Finding several zero-day exploits	Jul.-Sep. 2007
72.	Company N. Forensic Technology Service (with PwC NY and HK Office)	Feb. 2008
73.	Financial Supervisory Service. Internal Control Design Proj.	Mar. 2008
74.	British American Tobacco. Pen-Testing. (work with PwC UK, HK, and SG Office)	Apr. 2008
75.	National Tax Service of South Korea. Forensic training.	May.-Aug. 2008
76.	MetLife IT audit. (work with PwC NY Office)	Jul. 2008
77.	MEMC Electronic Materials. SoX Testing. (work with PwC SF Office)	Aug. 2008
78.	Cheil Worldwide. Early warning system implementation.	Sep.-Dec. 2008
79.	Shinhan Bank. IFRS.	Jan.-Jun. 2008
80.	Indonesia Government. Batam FTZ. PMO (Stayed 3 months in Indonesia)	Jun.-Sep. 2008
81.	Company P. Company N. Forensic Technology Service. (work with PwC NY Office)	Oct. 2008
82.	Lehman Brothers. Liquidation support. (data transfer)	Nov. 2008
83.	Korea Student Aid Foundation. BPR/ISP.	Dec. 2008-Feb. 2010
84.	Ministry Of Foreign Affairs. BPR/ISP. Security Architecture Part Leader.	Apr.-Sep. 2010
85.	International Organization I. Forensic Technology Service. (work with PwC NY Office)	Oct. 2010
86.	Ministry of Government Administration and Home Affairs. BPR/ISP.	Oct. 2010- Mar. 2011
87.	Federal Mogul. Internal Audit.	Mar. 2011
88.	Company L. Forensic Technology Service.	Apr. 2011
89.	Rhodia. Greenhouse Gas Emissions Verification.	May. 2011
90.	Dong Suh Foods Corporation. Greenhouse Gas Emissions Verification.	May. 2011
91.	Korea Housing & Urban Guarantee Corporation. IT audit.	Jun. 2011
92.	LG Electronics. IT audit.	Jul. 2011

93.	Company P. Forensic Technology Service. (with PwC NY)	<i>Jul.-Aug. 2011</i>
94.	LG Electronics. IT and Security audit.	<i>Aug.-Sep. 2011</i>
95.	eBay Korea. IT audit.	<i>Oct. 2011</i>
96.	GS Retail. IT audit.	<i>Nov. 2011</i>
97.	Industrial Bank of Korea. IT audit	<i>Nov. 2011</i>
98.	KB Card. ITGC audit.	<i>Dec. 2011</i>
99.	Novelis Korea. ITGC audit. In-charge.	<i>Dec. 2011</i>
100.	Woori Financial Group. Security governance and security framework. Part Leader.	<i>Dec. 2011-Mar. 2012</i>
101.	eBay Korea. 3rd party privacy management assessment Project Manager.	<i>Mar.-May. 2012</i>
102.	LG Display. Security strategy consulting. Part Leader.	<i>May.-Aug. 2012</i>
103.	LG Display. Security master-plan implementation project. Subject Leader (business work in China)	<i>Oct. 2012-Jan. 2013</i>
104.	Daum. PIMS Project Manager.	<i>Mar.-Apr. 2013</i>
105.	SK Planet. Mobile app security assessment Project Manager.	<i>Jun.-Aug. 2013</i>
106.	Amway Korea. ISMS.PIMS Technical Part Leader.	<i>Aug.-Sep. 2013</i>
107.	SK Planet, Sarbanes-Oxley (SOX) Testing.	<i>Dec. 2013</i>
108.	Company K. White-Hacker Pen-Testing Project Manager.	<i>Jan.-Mar. 2013</i>
109.	Hanwha Investment & Securities. PIMS. Technical PL.	<i>Apr.-May. 2013</i>
110.	NH Investment & Securities (Woori Investment & Securities). Information leakage assessment. PM.	<i>Jun.-Aug. 2014</i>
111.	Samsung Display. Pen-Testing Project Manager.	<i>Sep. 2014</i>
112.	eBay Korea. 3rd party privacy management assessment Project Manager.	<i>Oct.-Nov. 2014</i>
113.	Amway Korea. 3rd party privacy management assessment Project Manager.	<i>Dec. 2014</i>
114.	LS Group. Pen-Testing Project Manager.	<i>Jan.-Feb. 2015</i>
115.	Korea Hydro & Nuclear Power (KHNP). Information leakage assessment. Technical Part Leader.	<i>Apr.-May. 2015</i>
116.	SK Group SUPEX Council. Security Master-Plan. Technical Part Leader.	<i>Apr.-Jun. 2015</i>
117.	Amway Korea. ISMS. PIMS. Engagement Manger. (Successful acquisition of certification)	<i>Jun.-Nov. 2015</i>
118.	t-broad. ISMS Project Manager (Successful acquisition of certification)	<i>Jul.-Aug. 2015</i>
119.	KB Financial Group. Engagement Manger.	<i>Jun.-Nov. 2015</i>
120.	Shinsegae Group. Subsidiary security assessment Project Manager	<i>Dec. 2015-Feb. 2016</i>
121.	Starbucks Coffee Korea. ISMS Project Manager (Successful acquisition of certification)	<i>Mar.-May. 2016</i>
122.	Eastar Jet. Pen-Testing	<i>Jun. 2016</i>
123.	eBay Korea. 3rd party privacy management Project Manager	<i>Jun.-Jul. 2016</i>
124.	Company M. Pen-Testing	<i>Nov. 2016</i>
125.	Company I. Pen-Testing	<i>Dec. 2016</i>
126.	Company L. Mobile App Pen-Testing	<i>Sep.-Dec. 2017</i>

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| 127. | Cryptocurrency Trading Company C Pen-Testing. | <i>May.-Jun. 2018</i> |
| 128. | Company D. Pen-Testing Re-Testing             | <i>Jul.-Sep. 2018</i> |
| 129. | Company K. Mobile Vulnerability Analysis      | <i>Sep.-Dec. 2018</i> |
| 130. | Company D. Pen-Testing Advisory               | <i>Nov.-Dec. 2018</i> |
| 131. | Company A. Pen-Testing Project Manager        | <i>Feb.-Mar. 2019</i> |
| 132. | Company A. Pen-Testing Project Manager        | <i>May.-Jun. 2019</i> |
| 133. | Company A. Pen-Testing Project Manager        | <i>Mar.-Apr. 2022</i> |
| 134. | Company A. Pen-Testing Project Manager        | <i>Mar.-Apr. 2023</i> |

**F. CYBERSECURITY PROFESSIONAL MEMBERSHIP and CERTIFICATIONS**

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|----|---|--------------------------|
| 1. | Certified Information Systems Security Professional (CISSP) | <i>Dec. 2005-Present</i> |
| 2. | Certified Information Systems Auditor (CISA)                | <i>Jun. 2011-Present</i> |