Seokin Jang

+82-10-3609-0646 | Seoul, South Korea | seokinj.91@gmail.com

SUMMARY

- Cybersecurity professional with 9+ years of combined experience in national defense, government, and privacy regulation, specializing in threat intelligence, malware analysis, and digital forensics.
- Founded Korea University's first hacking club (CyKor) and later led cyber defense operations at the ROK Army, profiling North Korean APT groups through novel IoC correlation analysis and automated malware classification pipelines.
- At the Personal Information Protection Commission, investigated large-scale data breach incidents and established Korea's first digital forensic program to strengthen privacy enforcement across high-risk industries.
- Passionate about advancing **AI-driven privacy-enhancing technologies**—including federated learning, differential privacy, and secure data sharing—to ensure safe and trustworthy AI adoption.
- Seeking to pursue graduate research in **AI × Privacy/Security** and contribute to building privacy-preserving systems at scale.

EDUCATION

Korea University, Seoul, South Korea   **Mar 2012 – Feb 2016**
Bachelor of Engineering, Major in Cybersecurity

GPA: 4.04/4.5 (3.786/4.0, by Scholaro), Major: 3.85/4.0(by Scholaro)
Academic Excellence Scholarship, awarded 4 semesters for top academic performance
Coursework: Operating Systems, Database Systems, Data Structures, Algorithms, Cryptography, Malware Analysis, Network Security, Cyber Defense Practicum
Founder & President of CyKor (university hacking club); organized internal/external seminars and led team training for CTF competitions. CyKor later achieved top placements at global competitions including DEFCON

HONORS & AWARDS

- **Commendation for Contribution to Personal Data Protection** – Personal Information Protection Commission, 2024
- **Commendations for Cyber Defense Operations** – ROK Army Cyber Operations Command, 2018, 2020, 2021
- **First Place**, Cyber Officer Training Program – ROK Army, 2016
- **Excellence Award**, Secure Coding Competition – Korea Internet & Security Agency, 2014
- **Excellence Award**, ROK Army Cybersecurity Challenge, 2014

SKILLS

Cybersecurity & Privacy: Malware Analysis, Threat Intelligence, Digital Forensics, Security Assessment, Privacy Regulations (PIPA, GDPR), Privacy-Preserving Data Practices
Programming & Scripting: Python, C/C++, Java, Shell scripting
Emerging Interests: Privacy-Enhancing Technologies (Federated Learning, Differential Privacy), AI Security

PROFESSIONAL & RESEARCH EXPERIENCE

Personal Information Protection Commission (PIPC), Seoul, Republic of Korea   **May 2023 – Present**
Deputy Director, Privacy Investigator

- Investigated **50+ large-scale data breach incidents** (e.g., SK Telecom, Kakao) and issued enforcement actions under the Personal Information Protection Act (PIPA) and GDPR-aligned privacy frameworks.
- **Pioneered the agency's first digital forensic program** by securing ₩1.6B (≈ $1.2M) budget, procuring tools, and training specialists—transitioning investigations from reliance on corporate self-reporting to proactive, evidence-based analysis.
- Audited high-risk data processing systems across e-commerce, digital platforms, and sensitive sectors, strengthening regulatory compliance and privacy governance.
- Applied **data acquisition and analysis techniques** to accelerate breach investigations and improve accuracy in determining scope, root cause, and accountability.
- Recognized the limitations of policy-only approaches and the need for technical innovations, which motivated further study in **AI-driven privacy-enhancing technologies**.

Cyber Operations Command (Cyber Warfare HQ, ROK Army), Seoul, Republic of Korea   **Jun 2019 – May 2023**
Captain, Cyber Threat Intelligence Analyst

- Conducted **cyber threat intelligence operations** targeting nation-state APT groups (North Korea, China, Russia), reporting findings to senior defense leadership.
- **Developed a novel IoC correlation methodology** to associate domains, malware, and infrastructure—enabling proactive tracking and profiling of North Korean APT groups (e.g., Kimsuky).
- Built an **automated malware collection and classification system** using Python and YARA rules, streamlining daily analysis of 500K+ global samples from VirusTotal.
- Performed **malware reverse engineering** (IDA Pro, x86/x64 debuggers) and digital forensics on intrusions affecting military infrastructure and personnel, supporting real-time APT defense operations.
- Shared intelligence and technical findings with **national intelligence agencies (NIS, KISA)**, contributing to joint threat reports and policy advisories.
- Authored CTI reports analyzing APT **tactics, techniques, and procedures (TTPs)**, strengthening national defense against persistent cyber threats.

Agency for Defense Development (National Defense R&D Institute of Korea), Seoul,   **Jul 2016 – Jun 2019**
Republic of Korea
Lieutenant, Cybersecurity Researcher

- Conducted **vulnerability assessments and security audits** of military information systems, identifying weaknesses in critical infrastructure.
- Supported multiple **cybersecurity R&D projects**, including a **deep learning–based fuzzer** for automated vulnerability discovery and studies on international cyber policies and technologies.
- Participated in joint military exercises:
  - **UFG (Ulchi Freedom Guardian) Red Team** — performed penetration testing and web infrastructure exploitation drills.
  - **KR (Key Resolve) Blue Team** — identified and mitigated malware embedded in military VoIP systems, preventing disruption to mission-critical communication networks.
- Collaborated with cross-disciplinary defense researchers to integrate findings into national cyber defense strategies.