

GUNHO PARK

CLOUD SECURITY ENGINEER · DEVSECOPS ENGINEER · SECURITY RESEARCHER

Seoul, Republic of Korea

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“Good code is its own best documentation.”

Education

Information Security, Korea University

M.S. CANDIDATE

- Masters coursework completed (to Feb. 2023)

Seoul, S.Korea

Mar. 2021 - Present

HUFS (Hankuk University of Foreign Studies)

B.S. IN COMPUTER AND ELECTRONIC SYSTEMS ENGINEERING

Yongin, S.Korea

Mar. 2015 - Feb. 2021

Experience

Tatum Security

CLOUD SECURITY ENGINEER

- Zero Trust Architecture
 - Research and development of DevSecOps-based cloud security
 - Development of CNCF security project-based solutions using Go
 - Research and development of Zero Trust Segmentation solutions
 - Implemented API visibility and security integration for 'Akamai Guardicore Segmentation' and 'Palo Alto Networks - Prisma Cloud'
- Cloud Security Solutions
 - Developed CIEM solution for multi-cloud permission visibility
 - Implemented CSPM for CNAPP targeting AWS, GCP, Azure, NCP, NHN, and KT
 - Enhanced product capabilities through AWS Security Hub Best Practices implementation
 - Automated security compliance for CIS, NIST, DoD, ISO standards
 - Applied Prowler and Powerpipe for financial security compliance automation
- Infrastructure Security
 - Researched automated vulnerability diagnosis for VMware ESXi, vSphere, and XenServer
 - Built and operated on-premise environments based on vSphere and Proxmox
- Patent
 - Korea, PAT. No. 10-2024-0098442, "Relationship generating device for multiple clouds" (Jul. 2024)

Seoul, S.Korea

Aug. 2023 - Present

S2W Inc.

SECURITY ENGINEER

- Gained insights into CTI solutions through cybersecurity data analysis of the dark web
- Implemented on-premise DevOps CI/CD pipeline and GitOps-based service automation
- Developed and maintained Elastic Search-based information gathering system
- Developed Spring Boot based B2G search engine solution backend
- Korea, PAT. No. 10-2022-0189561, Online Threat Data Saving Server and Method (2022.12.29)
- Korea, PAT. No. 10-2022-0190122, Threat Data Search Method for Private Channel (2022.12.30)
- Developed Port Scanner for Attack Surface Management and handled large-scale data processing

Seongnam-si, S.Korea

Jan. 2022 - Jun. 2023

Korea University, Hacking and Countermeasure Research Lab

FULL-TIME MASTER'S STUDENT RESEARCHER

- Published in Journal of Cloud Computing (Sep. 2024)
 - Domain knowledge free cloud-IDS with lightweight embedding method
 - Authors: Yongsik Kim, *Gunho Park & Huy Kang Kim
 - DOI: 10.1186/s13677-024-00707-8
- Research Projects
 - NLP-based Cyber Threat Intelligence System Research (Samsung SDS, Mar. 2021 - Dec. 2021)
 - Security and Ultra-High Speed Integrity Technology for Next-Generation In-Vehicle Networks (IITP, Apr. 2021 - Dec. 2021)
 - Next-Generation Security R&D Challenge (IITP, Aug. 2021 - Dec. 2021)
- Patent: PCT/KR2022/017082
 - Lightweight Real-Time Anomaly Detection Method Using CAN Message Analysis and Neural Network Model (Nov. 2022)
- Infrastructure Development
 - Built and operated vulnerability verification and IDS development competition infrastructure for Automotive Grade Linux (AGL) infotainment systems
- Received first semester scholarship in 2021 academic year

Seoul, S.Korea

Feb. 2021 - Dec. 2021

LSware Inc.

SECURITY ENGINEER

Seoul, S.Korea
Jun. 2020 - Dec. 2020

- Developed Linux ransomware response and recovery automation systems
- Researched ML-based anomaly detection and anonymous network tracking
- Published at CISC-W'20: "Automated Backup Linux Kernel Module(LKM) Against Ransomware & Classification of Grayscale Images for Encrypted File Detection"
- Published at KSC2020: "A Study on the Malware Classification Using Deep Learning and the Detection of Encrypted Files through the Transformation of Grayscale Images"

LSware Inc.

SOFTWARE QUALITY ASSURANCE INTERN

Seoul, S.Korea
Mar. 2020 - May 2020

- Tested security vulnerability diagnostics and access control systems
- Developed monitoring system and automated consistency check tools
- Implemented test automation scripts and improved methodologies

Extracurricular Activity

WhiteHat School, Korea Information Technology Research Institute (KITRI)

SECURITY MENTOR

Seoul, S.Korea
Sep. 2023 - Present

- Teaching in next-generation security leader training program organized by Ministry of Science and ICT
 - VMware & Hyper-V infrastructure course instructor
 - ELK-based SIEM design and implementation lecturer
 - Kubernetes cluster deployment with kind basic course

Kangwon National University Big Data-Convergence Security Division

GUEST LECTURER

Gangwon, S.Korea
Jan. 2024

- Delivered special lecture on Information Security for university students

Best of the Best (BoB)

SECURITY PRODUCT DEVELOPMENT TRACK

Geumcheon District, S.Korea
Jun. 2019 - Mar. 2020

- The Cyber Security Talent Development Program, organized by the Ministry of Science and ICT and hosted by the Korea Information Technology Research Institute (KITRI).
- Conducted POS Vulnerability Analysis & Security Verification project with Financial Security Agency.
- Held several hacking competitions as non-profit events.

Naver Whale Browser Extensions

DEVELOPMENT PROJECTS

S.Korea
2018

- Popular Movies Extension (TMDB)
 - Developed movie search sidebar extension
 - Rating 4.9/5.0 with 22,083 users and 23,734 downloads (as of Nov. 2024)

Presentation

Korea Software Congress (KSC) 2020

PRESENTER (KOREAN PAPER)

Seoul, S.Korea
Jul. 2020

- Development of incomplete morpheme connection method for topic analysis of unstructured text data

Conference on Information Security and Cryptography 2020 Summer (CISC-S'20)

PRESENTER (KOREAN PAPER)

Seoul, S.Korea
Jul. 2020

- A Study on the Automated Security Incident Response Using DevOps and Large Log Collection

Honors & Awards

Aug. 2023 **Track 2nd Prize**, Junction Asia 2023 in Busan

S.Korea

Jul. 2023 **Grand Prize (1st Place)**, 6th Goormthon in JEJU

S.Korea

Sep. 2022 **Excellence Award**, 9th IT Community Joint Hackathon UNITHON

S.Korea

Mar. 2019 **Excellence Award**, SK Broadband Cloud CAM API Idea Competition

S.Korea

Jan. 2019 **Excellence Award**, Blockchain Internship Matching Program (Founders 2019)

S.Korea

Feb. 2013 **Encouragement Award**, Destination Imagination Korea

S.Korea

Certificates

Dec. 2023 **GitOps Fundamentals Certification**, Codefresh

Jun. 2019 **Architecting with Google Kubernetes Engine**, Google Cloud, Coursera