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   *Seoul, S.Korea*

M.S. CANDIDATE   *Mar. 2021 - Present*

- Masters coursework completed (to Feb. 2023)

HUFS (Hankuk University of Foreign Studies)   *Yongin, S.Korea*

B.S. IN COMPUTER AND ELECTRONIC SYSTEMS ENGINEERING   *Mar. 2015 - Feb. 2021*

Experience

Tatum Security   *Seoul, S.Korea*

CLOUD SECURITY ENGINEER   *Aug. 2023 - Present*

- 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)

S2W Inc.   *Seongnam-si, S.Korea*

SECURITY ENGINEER   *Jan. 2022 - Jun. 2023*

- 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

Korea University, Hacking and Countermeasure Research Lab   *Seoul, S.Korea*

FULL-TIME MASTER'S STUDENT RESEARCHER   *Feb. 2021 - Dec. 2021*

- 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

LSware Inc.
Seoul, S.Korea

SECURITY ENGINEER
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.
Seoul, S.Korea

SOFTWARE QUALITY ASSURANCE INTERN
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

Best of the Best (BoB)
Geumcheon District, S.Korea

SECURITY PRODUCT DEVELOPMENT TRACK
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.

Conferences
S.Korea

ACADEMIC PUBLICATIONS & PRESENTATIONS
2020

- KSC2020 (Jul. 2020)
    - Development of incomplete morpheme connection method for topic analysis of unstructured text data
- CISC-S'20 (Jul. 2020)
    - A Study on the Automated Security Incident Response Using DevOps and Large Log Collection

Naver Whale Browser Extensions
S.Korea

DEVELOPMENT PROJECTS
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)
- Stock Info Extension
    - Developed real-time stock monitoring extension
    - Finalist in Naver Whale Extension App Contest (Oct. - Dec. 2018)

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