

Seongjin Kim

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RESEARCH INTERESTS

Security, Open-Source Contribution, Web Programming

EXPERIENCE

Penn State College of IST

Research Assistant/Associate

Jan 2024 – Jan 2025

Westgate Building, University Park, PA 16802

- Security research of DDS, RTPS Protocol, LLVM, Embedded Software

SW Maestro

13rd Trainee

June 2022 – Dec 2022

311, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

- Project planing and development for 6 months as a team of 3 people
- Development of web application about online study management service with online real time communication

EDUCATION

Kwangwoon University

Major in Information Engineering, Bachelor of Science in Computer Engineering. GPA 4.05/4.5

Seoul, Korea

Feb 2019 – Present

HONORS AND AWARDS

KISA Whitehat Together Season 3, 1st prize, KISA, 2024

Topcit 20th Chief of the Defence Staff award, IITP, 2023

Topcit 20th Presidential award, Kwangwoon University, 2023

KISA Whitehat Together Season 2, 3rd prize, KISA, 2023

OSSCA Open Source Contribution Academy Mentee 2nd prize - ufrace, IITP, 2023

Topcit 19th Presidential award, Kwangwoon University, 2023

Magna Cum Laude(Chambit) Scholarship, Kwangwoon University, 2023

Topcit 18th Presidential award, Kwangwoon University, 2022

Software Competence Excellence Scholarship, Kwangwoon University, 2019, 2022

Wooribank Penetration testing Competetion (WooriCON) 3rd Prize, 2022

Excellence Award in Ministry of National Defense Start-Up Challenge, Republic of Korea Ministry of National Defense, 2021

PROJECTS (PUBLICATIONS)

Differential Fuzzing for Data Distribution Service Programs with Dynamic Configuration

2024

ASE 2024

- Dohyun Ryu, Giyeol Kim, Daeun Lee, **Seongjin Kim**, Seungjin Bae, Junghwan Rhee, Taegyu Kim

Naver Bug Bounty

2022 – 2023

Naver

- Found 3 Unique vulnerability

Kakao Bug Bounty

2023

Kakao

- Found 2 Unique vulnerability

KISA Whitehat Together

2023 – 2024

KISA, FindtheGap

- Found 8 Unique vulnerability in Season 2, includes XSS / Parameter Manipulation / File Upload
- Found 55 Unique vulnerability in Season 3, includes XSS / IDOR / Privilege Escalation / Account Takeover / etc.
- Achieve 55 KVEs

FindtheGap X-MAS CTB

2023

FindtheGap

- Found 7 Unique vulnerability in Season 2023, include SQL Injection.
- Found 3 Unique vulnerability in Season 2024, include IDOR.

FindtheGap

2024

FindtheGap

- Found 4 Unique vulnerability
- Achieve 3 KVEs

Dreamhack Bug Bounty

2023 – 2024

PatchDay

- Found 2 Unique vulnerability

CVE - Gnuboard g6

2024

Gnuboard

- [CVE-2024-24156] Stored XSS in writing reply via wr_content parameter
- [CVE-2024-24157] Stored XSS in writing board via wr_content parameter

CVE - FastDDS

2024

eProisma

- [CVE-2024-30258] DoS when publisher send malformed packet
- [CVE-2024-30259] Heap buffer overflow when publisher send malformed packet

CVE - FastDDS

2024

eProisma

- [CVE-2024-30258] DoS when publisher send malformed packet
- [CVE-2024-30259] Heap buffer overflow when publisher send malformed packet

CVE - OpenDDS

2024

OpenDDS

- [CVE-2023-52427] Segmentation fault while create_datawriter
- [CVE-2024-30915] Process killed with high RAM usage when setting malicious DataReaderQoS setting

CVE - REDACTED

2024 – 2025

REDACTED

- Found 10 CVEs in private project in PSU lab

PROJECTS (DEVELOPMENT)

Backtest Toolkit - Stock Signal Backtest Tool

Jan 2023 – Jun 2023

DS Lab, Kwangwoon Univ.

- Develop Backtest Algorithm and Visualize Backtest result
- Develop service with Vue, Django Rest Framework, Deploy service with Docker, Github Workflow
- Project management with Notion, Slack

StudyFlow - Online Study Management Service

June 2022 – Dec 2022

SW Maestro

- Development of web application about online study management service with online real time communication
- Develop service with React, Express, Deploy service with AWS amplify, EC2, Github Workflow
- Project management with Jira, Git

klas-helper

Oct 2021 – Now

KW Open Source Group

- Development/Maintenance for 3 years as a Open source Contributor
- Development of an extension program that revamped the LMS system within the university
- Average DAU: 8,400 (80% of Active University student)
- Project management with Github Issue / Pull Request

CERTIFICATIONS

- Oct. 2022 **TOPCIT**, Level 3 (635)
- Oct. 2023 **TOPCIT**, Level 4 (733)