

# Seongjin Kim

[LinkedIn](#) | [GitHub](#) | [Homepage](#)

Location: Seoul, Korea

Email: [mirusu400@naver.com](mailto:mirusu400@naver.com) | Mobile: +82-10-9808-4536

## RESEARCH INTERESTS

Security, Open-Source Contribution, Embedded Firmware

## 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

## BUG BOUNTY

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### Naver Bug Bounty

Naver

2022 – 2023

Found 3 Unique vulnerability

### Kakao Bug Bounty

Kakao

2023

Found 2 Unique vulnerability

### KISA Whitehat Together

KISA, FindtheGap

2023 – 2024

Found 63 Unique vulnerability

- 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

FindtheGap

2023 – 2024

Found 10 Unique vulnerability

### FindtheGap

FindtheGap

2024

Found 4 Unique vulnerability

- Achieve 3 KVEs

### Dreamhack Bug Bounty

PatchDay

2023 – 2024

Found 2 Unique vulnerability

## CVE

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### CVE - Gnuboard g6

Gnuboard

2024

- [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

eProisma

2024

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

### CVE - OpenDDS

OpenDDS

2024

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

### CVE - REDACTED

REDACTED

2024 – 2025

- Found 10 CVEs in private project in PSU lab

## PROJECTS (DEVELOPMENT)

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### Conffuzz

Security lab, Pennsylvania State University

June 2024 – March 2025

- Develop the whole system; includes parser, mutator, etc.
- Found 10 CVEs

### DDSFuzz

Security lab, Pennsylvania State University

Jan 2024 – Oct 2024

- Develop network harness for FastDDS, OpenDDS, CycloneDDS
- Found 10+ CVEs

### **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**

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