

# YUNSEONG KIM

Email ◇ ysk@kzalloc.com Phone ◇ +82 10-3081-9242 GitHub LinkedIn

## PROFESSIONAL EXPERIENCE

---

### Ericsson

System Software Developer

Seoul, South Korea

07/2023 - Present

- Mobility and Control Development Team

### AhnLab

System Software Developer

Bundang-gu, South Korea

01/2022 - 06/2023

- EDR(Endpoint Detection and Response) Development Team

### Innowireless

Software Developer

Bundang-gu, South Korea

8/2018 - 12/2021

- Server Software Development Team

## EDUCATION

---

### Korea Aerospace University

B.S. in Electronics and Avionics Engineering

Goyang, South Korea

03/2010 - 02/2018

### Linux Foundation

LFD441: Security and the Linux Kernel

Online

7/2024 - 7/2024

### IBM Z Day Program

IBM Z Security Certificate

Online

10/2024 - 10/2024

## KEY PERFORMANCES

---

- **Linux Kernel Security Development**
  - \* Developed security modules using **LSM**, **kprobe**, and **eBPF**
  - \* Profiled and optimized CPU, memory, and I/O performance with **perf tools**
- **Upstream Linux Kernel Contributions**
  - \* Reported 3 security vulnerabilities: #1, #2, #3 and submitted patches for the mainline kernel: #1, #2, #3
  - \* Performed backporting of vulnerability fixes to stable Linux kernel releases
- **Maintainer of the Linux perf tools wiki; ufttrace contributions: #1, #2**
- **Security R&D in 5G Core Systems**
  - \* Find vulnerabilities from **ASN.1 codec** to **5G NGAP protocol handling**
- **Cloud-Native Distributed Systems**
  - \* Developed large-scale distributed 5G applications using **Erlang/OTP**

## TECHNICAL SKILLS

---

- **Linux Kernel Security Module** Development using QEMU, LSM, crash tools, ftrace, perf tools and Wireshark
- Strong C/C++ programming and debugging skills
- **Fuzzing** with syzkaller and AFL++; source control with Git; CI/CD with Jenkins; scripting with Erlang/OTP, Python, and shell scripts
- **Linux Kernel CI/CD and Verification Automation**
  - \* Managed **multiple Jenkins pipelines** on virtualized infrastructures: VMware ESXi, vSphere

## TALKS & PUBLICATIONS

---

- **Head First Reporting of Linux Kernel CVEs: Practical Use of the Kernel Fuzzer**
  - \* Presented Linux kernel CVE discovery using syzkaller, including KSMDB and s390x vulnerabilities
- **Speaker at DebConf24: perf In Action** – page fault comparison and fuzzing use cases and techniques for Linux perf
- **ZYBO Z7-20 AES Crypto Accelerator** HW/SW co-development on the *PetaLinux v2025.1*
- **Hackster.io: ZYBO Z7-20 Webcam on the PetaLinux Project**