Yunseong Kim

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Professional Experience

Ericsson — Seoul, South Korea
System Software Developer — 07/2023 - Present
- Mobility and Control Development Team

AhnLab — Bundang-gu, South Korea
System Software Developer — 01/2022 - 06/2023
- EDR(Endpoint Detection and Response) Development Team

Innowireless — Bundang-gu, South Korea
Software Developer — 8/2018 - 12/2021
- Server Software Development Team

Education

Korea Aerospace University — Goyang, South Korea
B.S. in Electronics and Avionics Engineering — 03/2010 - 02/2018

Linux Foundation — Online
LFD441: Security and the Linux Kernel — 7/2024 - 7/2024

IBM Z Day Program — Online
IBM Z Security Certificate — 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 multiple security vulnerabilities and submitted and reviewed patches for the mainline kernel
  * Performed backporting of vulnerability fixes to stable Linux kernel releases
- **Maintainer of the Linux perf tools wiki**; **uftrace contributions**: #1, #2
- **Security Analysis in 5G Core Systems**
  * Analyzed 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

- Speaker at **SOSS Community Day Japan 2024**: *Head First Reporting of Linux Kernel CVEs*
  — Presented Linux kernel CVE discovery using syzkaller, including KSMBD and s390x vulnerabilities
- Speaker at **DebConf24**: *perf In Action*
  — Shared practical use cases and techniques for Linux perf tools
- Project on **Hackster.io**: ZYBO Z7-20 Webcam on the Petalinux Project
  — Demonstrated webcam driver integration on Xilinx PetaLinux using ZYBO Z7-20 board