

YUNSEONG KIM

Email ◇ ysk@kzalloc.com Phone ◇ +46 70-260 30 51 GitHub LinkedIn

PROFESSIONAL EXPERIENCE

Ericsson Software Technology

Senior Linux Engineer

Stockholm, Sweden

04/2026 - Present

- Linux Kernel Opensource Team

Ericsson Korea

System Software Developer

Seoul, South Korea

07/2023 - 04/2026

- 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

SKF201: Threat Modeling

Online

9/2025 - 9/2025

Linux Foundation

LFD441: Security and the Linux Kernel

Online

7/2024 - 7/2024

KEY PERFORMANCES

- **Linux Kernel Security Development**
 - * Developed security modules using **LSM**, **kprobe**, and **eBPF**
- **Upstream Linux Kernel Contributions**
 - * Reported 4 security vulnerabilities: merged patches for the mainline kernel: #1, #2, #3, #4
- **Maintainer of the Linux perf tools wiki; ufttrace contributions: #1, #2**
- **Security R&D in 5G Core Systems**
 - * Developing **eBPF + rust** (aya-rs) based NGAP firewall
 - * Find vulnerabilities from **ASN.1 codec** to **5G NGAP protocol handling**

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; Jenkins; scripting with Erlang/OTP, Python, and shell
- **Linux Kernel CI/CD and Verification Automation**
 - * Managed **multiple Jenkins pipelines** on virtualized infrastructures: VMware ESXi, vSphere

TALKS & PUBLICATIONS

- **Speaker at DebConf25:: Rethinking Cryptography in the Linux Kernel – Preparing for the Post-Quantum (PQC) Era**
- **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**