

Mazunki Hoksas

Systems Programmer and Linux Specialist

Oslo, Norway
+47 48447243
rolferen@gmail.com
mazunki.tech
mazunki
mazunki
mazunki
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Summary

Software developer with an interest in system's architecture, embedded software, compilers, linguistics, and philosophy.

I'm drawn to the world of free and open source software. I care about making things more accessible, open, and ensuring compliance to standards and ethics

Work Experience

- 2022–present **Teacher, *Learnist*, Remote**
Teaching kids and adolescents the fundamentals of programming
- 2025 **External Examiner, *University of Oslo***
Provided tests for IN2140, a course on fundamentals of computing
- 2014–2022 **Maintenance and Mariner, *Marine Service A/S*, Oslo**
Worked on maintenance of boats, ferries, and cargo ships
- 2016–2022 **Ferry Sailor, *Oslo-Fergene AS*, Oslo**
Assisted the captain and passengers aboard a local ferry

Education

- 2024–present **MSc Programming and Systems Architecture, *University of Oslo***
 - I am working on efficient, performant and safe memory management within the context of IncludeOS, a minimal unikernel for microservices and cloud usage.
 - This includes interaction with VirtIO, QEMU and low-level hardware interactions.
 - Besides my thesis, I have taken several courses in networking and fundamentals of programming languages and compilers.
- Grad. 2025 **BA Philosophy, *University of Oslo***
 - Focusing on both theoretical and applied ethics
 - With a minor in Linguistics
- Grad. 2023 **BSc Informatics: Robotics and Intelligent Systems, *University of Oslo***
- 2018–2019 **Applied Data Science, *Noroff Education***

Projects

- Custom System Services I build and maintain up my own set of system services using the s6-rc and execline system. This allows me to have a better control, customizability and understanding of the systems I use on a daily basis
- Linux Distro I am very used to many Linux distributions. I'm currently running Gentoo on my desktop, and NixOS on my servers and work machines, if not Debian. Each distro has its quirks, and none are perfect.

Operating System	<p>As part of an assignment for a course on kernel building, we built a simple operating system. Throughout the course, we build different pieces over one semester.</p> <ul style="list-style-type: none"> ○ Setting up a bootloader on MBR-BIOS/legacy system on the IA-32 architecture (x86). ○ Implement threading scheduling support, using non-preemptive and preemptive approaches ○ Supporting virtual memory by using external storage for swapping out pages ○ Added a basic file system to the OS similar to FAT
TJ Bot, Home assistant	<p>A project done for the first year of Studio at Noroff University & College by four students, using different APIs together to create a home device / bot. Built from scratch, incorporating various technologies such as Text to Speech, Speech to Text, visualisation, network communication, beyond others; and enhancing all this with a focus on security and privacy aspects</p>

Technical skills

Programming Languages	Proficient in Python, C, and Java, and writing shell scripts that are POSIX compliant
Development Tools	I pedantically use Git for version control; Vim for editing; tmux, kitty and Sway for multiplexing; and SSH for jumping between different systems
Systems and Platforms	Experienced with virtualization using QEMU, and proficient in managing Linux-based systems, particularly with non-traditional init systems like s6 instead of systemd. Familiar with the Wayland display protocol, especially wlroots

Volunteering

2019-2020	<p>Language Tutor, <i>Norsk Start</i>, Oslo</p> <p>I helped foreigners improve their language skills in Norwegian and in English, in order to have a better chance at their goals</p>
2017–present	<p>Technical support</p> <p>I often help newbies and more experienced people on forums and IRC-like chats track down problems with their systems, mostly Linux-related</p>
2022–present	<p>Package Maintainer</p> <p>I've been maintaining several packages on Gentoo for a while. This requires working with different build systems, requirements, and expectations</p> <p>Open Source</p> <p>Whenever something isn't working as I want in some FOSS/open source software I'm using, I fix it and provide a pull request</p>

Certifications

2018	Crowd- and Crisis Management , <i>Redningsselskapet</i> , Oslo
2018	Reduced Safety Coruse for seafarers , <i>Redningsselskapet</i> , Oslo
2018	Boat Driver License , <i>Sjøfartsdirektoratet</i>