

Mazunki Hoksaa

Systems Programmer and Linux Specialist

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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
- 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*
- 2021–present **BA Philosophy and Linguistics**, *University of Oslo*
- 2019–2023 **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 exeline 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, but none of them are ideal to my taste. I am currently working on building my own Linux distro breaking away from the standards of POSIX and the FHS

Operating System 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.

- 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 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

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 **Language Tutor**, *Norsk Start*, Oslo

I helped foreigners improve their language skills in Norwegian and in English, in order to have a better chance at their goals

2017–present **Technical support**

I often help newbies and more experienced people on forums and IRC-like chats track down problems with their systems, mostly Linux-related

2022–present **Package Maintainer**

I've been maintaining several packages on Gentoo for a while. This requires working with different build systems, requirements, and expectations

Open Source

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

Certifications

2018 **Crowd- and Crisis Management**, *Redningsselskapet*, Oslo

2018 **Reduced Safety Coruse for seafarers**, *Redningsselskapet*, Oslo

2018 **Boat Driver License**, *Sjøfartsdirektoratet*