

SZYMON NIEDŹWIEDŹ

hardcoded.info · resume@hardcoded.info · linkedin.com/in/niedzwiedz1

About me

I am an independent and task-focused person, both personally and at work. Solving complex and challenging problems, from infrastructure to low-level issues, is my strength. I enjoy experimenting with technology and creating exotic setups.

Experience

- Senior DevOps Engineer @ NOKIA** IV 2021 - present
I was primarily responsible for the development of an in-house **distributed computing** platform. The goal of that platform was to achieve quick execution time for a large pool of compute-heavy tests by running them on a pool of cloud nodes.
 - In-house **distributed computing** solution.
 - Introducing the tool on the 5G CI platform
 - Implementation of internal CI and tooling
 - Maintaining compatibility with dependencies
 - Feature development and maintenance
 - CI environment
 - Operating a **large pool of production machines**.
 - Using **Grafana/Graphite, Icinga, Ansible**
 - Working with a big **C++ project**
 - Significant reduction of feedback times.
- Software Developer @ ZPAS SA** X 2020 - II 2021
I reconstructed the **Windows HID DLL (x86_64)** usb driver. I ported the functionality of the **Windows** library to an **Android** application that collected measurements and sent them to the **Django** backend
 - Reverse Engineering the user-space library of the HID device using **Ghidra**
 - A fully functional rewrite of the driver for Windows in **C**
 - Implementation of analogous functionality in Android application
 - A fully functional production deployment of an **Android** Application and **Django** Backend that collected measurements into a database

Projects

- hardcoded.info 2022 - now
I share my thoughts on high performance VMs on Linux and topics that interest me.

Languages

- Polish** - native
- English** - C1
- German** - B1

Education

- Bachelor of Electronics** 2017 - 2021
Wrocław University of Science and Technology, Faculty of Electronics
Specialization: Applied Control Electronics
BSc Thesis: Application For Finding Paths For Bikers And Runners

Hobbies

- Hiking and trail running
- Skating with protective equipment



Skills

General

- DevOps/CI** - ability to automate tasks and supervise processes
- Prototyping** - Proofs of Concept delivered quickly

Reverse Engineering

- Ghidra**
- GDB**
- Scripting languages debugging techniques**
- 64-bit arm assembly and embedded devices**

Administration

- Basic **pentesting** skills
- Linux, Bash, Systemd**
- Docker, LXC, QEMU, Podman**
- Git, SVN**
- Restic, Rclone, Borgbackup**

DevOps Tools

- Ansible**
- Yocto project**
- Gitlab, Jenkins, Zuul**
- Gerrit**
- Icinga, Grafana, Graphite**

Programming

- Python** - my scripting language of choice
 - standard library** - threading, multiprocessing
 - Requests, Selenium** - automation
- C**
 - Unix / Linux interfaces
 - Make proficiency
- C++** - mainly from the DevOps side
 - CMake
- Golang**
 - API and tooling** development
- JavaScript (and HTML/JS)**
 - React** - for creating admin panels and forms
 - Next.js and Bootstrap**
- Language Agnostic**