

KARL-ANDREAS TURVAS

Systems Engineer

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PROFFESIONAL EXPERIENCE

DevOps Engineer & Linux Administrator

TalTech High Performance Computing Centre

Feb 2023 – Present Estonia, Tallinn

- Managing Proxmox and OpenStack based clouds for internal and external services.
- Automating configuration management with Ansible for myriad of scientific needs.
- Developing GitLab CI solutions for automated testing and builds.
- Managing and improving Zabbix/Syslog/Prometheus/Grafana based observability stacks.
- Developing OpenOnDemand HPC solutions.

Python Developer & Linux Administrator

CERN (European Organization for Nuclear Research)

Feb 2022 – Dec 2022 Switzerland, Geneva

- Developed a Python library/CLI-tool/server that abstracts an overwhelming number of different CERN services via APIs.
- Automated configuration management, VM/Docker image and RPM package builds.
- Deployed GitLab Runners and Hashicorp Vault with Kerberos integration on Kubernetes.

DevOps Engineer & Linux Administrator

TalTech High Performance Computing Centre

May 2021 – Jan 2022 Estonia, Tallinn

- Automated configuration management with GitLab CI and Ansible.
- Set up Hashicorp Vault for internal credentials and secrets management.
- Provided secure solutions to requirements of current and to-be clients of the HPC Centre.
- Managed InvenioRDM-based containerized data repository on Nginx, Flask, Postgre, Elasticsearch.

Chairman of the Board

TalTech Student Council of the School of IT

May 2021 – May 2022 Estonia, Tallinn

- Managed a board of 7 members of the non-profit organisation of nearly 200 members to be voice of IT students.
- Collaborated closely with TalTech, as well as Estonia's largest IT companies and associations alike to enrich the student life by organising educational and entertainment events.

GENERAL

Languages
English (CAE C2), Estonian (Native)

Driver license
B, C, D

Hobbies
10K Obstacle Runs, Photography, Writing, RPG Tabletops

EDUCATION

Bachelor's in Hardware Development and Programming

Tallinn University of Technology

Sept 2020 – 2024 (Gap year at CERN)

REFERENCES

Thomas Oulevey

@ CERN
Contact available on request

Lauri Anton

@ TalTech HPC Centre
Contact available on request

Andres Eek

@ TalTech School of IT
Contact available on request

OTHER EXPERIENCE

Teacher

TalTech IT College

📅 Feb 2025 – Present

📍 Estonia, Tallinn

- Gave practical lessons on operating systems to first year students.

Homelab

Hobby project

📅 Whenever I find time!

📍 Home

- HashiCorp Nomad Container Orchestration Cluster
- Family Picture and File Cloud Service
- Prometheus, Grafana, Loki Monitoring
- Home Wireguard VPN
- Selfhosted services and gameservers
- Ansible, Packer, Terraform IaC
- MkDocs Material Documentation
- 11ty Personal Site
- Obsidian Second Brain Notes Site

SKILLS

> Programming

I love systems programming, but mostly scripting for sysadmin.

Systems: Assembly, C/C++, Rust

Scientific: Python, MATLAB

Scripting: Bash, Go

Web: HTML/CSS, PHP, Javascript, Ruby

☰ Hardware

Your cable management better be organized and pretty!

Servers: Raspberry Pi, HP, Supermicro, Fujitsu

PCs: Building gaming computers in different form factors

Controllers: Arduino, ARM Cortex-M

Switches: TP-Link, Extreme

NAS: Synology

3D Printers: Anycubic

MORE ABOUT ME



Active

4-day workweek is important to me to balance time around personal projects, volunteering, and close ones



Night Owl

I prefer late nights and mornings



Team player

Socializing and working together gives meaning



Leader

I tend to take the lead if I can make a difference



Context switcher

I like working on 2-3 projects at once



Organizer

Love for automation, reproducibility, and documentation



Teacher

Delivering clear and concise instruction with patience



Top-Down Thinker

Filtering the unnecessary for effective problem-solving and decision-making